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UNITED STATES DEPARTMENT OF AGRICULT I E EDIL CONSERVATION SERVICE
WASHINGTON, U. C.
H. H. BENNETT, CHIEF

HYDROLOGIC STUDIES

COMPILATION OF
RAINFALL AND RUN-OFF FROM THE WATERCHE'S
OF THE MISSOURI VALLEY LOESS REGION
CONSERVATION EXPERIMENT STATION

CLARINDA, JOWA

1904-38

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UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE
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HYDROLOGIC STUDIES

COMPILATION OF
RAINFALL AND RUN-OFF FROM THE WATERSHEDS
OF THE MISSOURI VALLEY LOESS REGION
CONSERVATION EXPERIMENT STATION
CLARINDA, IOWA

1934-38

by

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Prepared under the direction of C. E. Ramser, Chief, Hydrologic Division

Office of Research SCS-TP-31 May, 1940



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TABLES

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REPORT ON HYDROLOGIC INVESTIGATIONS ON SMALL WATERSHEDS AT THE CONSERVATION EXPERIMENT STATION, MISSOURI VALLEY LOESS REGION, CLARINDA, IOWA.

I. The Experiment Station History

The Soil and Water Conservation Experiment Station at Clarinda, Iowa, was established in March, 1931. The Division of Agricultural Engineering in the Bureau of Public Roads, and the Bureau of Chemistry and Soils were given responsibility for the inauguration of the work. The Iowa Agricultural Experiment

Station cooperated in selection of location of the station and also leased the land. The Chambers of Commerce of Clarinda, Iowa, and Shenandoah, Iowa, and the Page County Farm Bureau cooperated by assuming responsibility for the payment of the taxes on the farm. This project was later transferred to the Soil Conservation Service on April 1, 1935.

Acknowledgment is made to R. A. Norton, the present Project Supervisor, who installed the equipment and collected the early basic records. During the early period of the station the project was supervised by G. W. Musgrave. Recent records were collected by L. H. Schoenleber, who directed three men furnished by the Works Progress Administration, for the routine compilations of the data for this report. L. L. Harrold and W. D. Potter of the Washington Office, Hydrologic Division, prepared the instructions for compiling the data, initiated the compilation work in the field and reviewed the data before publication.



II. Physical Characteristics of the Station

This farm, consisting of 200 acres, is situated about midway between the towns of Shenandoah and Clarinda, on State Highway No. 3, in Page County, Iowa. It was selected as being representative of the loessial soils of rolling topography in the Missouri River Valley. The average relief is from 40 to 70 feet. The greater part of the farm consists of Marshall silt loam, which is the predominant soil type of the problem area. Areas of the different soil types are shown in figure 1.

III. Description and History of Each Watershed

Soon after the station was established there were seventeen different engineering experiments inaugurated. One of the experiments set up at this station was to determine the effect of land use on surface run-off and soil loss from small watersheds and terraced fields. There are five different watersheds included in this study (see figure 2), namely Plot V, Plot W, Plot X, Plot Y, and Plot Z. The location of these plots on the Experiment Station is shown in figure 1.

Watershed Plot V, good rotation unterraced plot, was installed in September, 1931. The measuring equipment was completely installed by October, 1932, at which time hydrologic measurements were started. The drainage area of this watershed is confined by the use of earth ridges and dykes. In general the



drainage of this plot results from sheet flow into a natural depression and is then carried off the plot through confined channel. This watershed, 3.25 acres in area, is unterraced, sloping generally to the northeast. A view of Plot V is shown in Plates I and II. There is a crop rotation of corn, corn, oats with seeding of clover and clover. The rotation started with second year corn in 1932.

Watershed Plot W, poor rotation unterraced plot, was installed in September, 1931. The measuring equipment was completely installed by April, 1934, at which time hydrologic measurements were started. The drainage area of this watershed is confined by the use of earth ridges and dykes. In general the drainage of this plot results from sheet flow into natural depression and is then carried off the plot through confined channel. This watershed, 1.97 acres in area, is unterraced, sloping generally to the southeast. A view of Plot W is shown in Plate III. The crop rotation on this area is corn, corn, corn, oats. The rotation started with oats in 1934.

Watershed Plot X, poor rotation terraced plot, was installed in September, 1931. The terraces were constructed September 8 to 12, 1931. Terraces on this watershed possess the following characteristics.

		•			
Terrace	Length feet		Drainage Area Acres	Uniform grade in./100 ft. inches	Slope of land per 100 ft. feet
X-1	127	4.81	0.19	3	6.65
X - 2	169	5.23	•19	3	9.12
X - 3	226	4.97	•23	3	9.67
X-4	324	5.03	•38	3	8.41
X - 5	350	4.83	•39	3	9.64
x- 6	292	5.19	•40	3	9.61
Other			<u>•19</u>		
TOTAL			1.97		

The measuring equipment was completely installed by April, 1934, at which time hydrologic measurements were started. Surface drainage resulting from terraces on this plot is concentrated into a terrace outlet and is then diverted to the measuring equipment. This plot sloping generally to the northeast has a crop rotation of corn, corn, oats. The rotation started with oats in 1934. A view of Plot X is shown in Plate IV.

Watershed Plot Y, good rotation unterraced plot, was installed in September, 1931. The measuring equipment was completely installed by October, 1932, at which time hydrologic measurements were started. On February 17 to 24, 1934, the east boundary was altered so that the area of this plot was the same as Plot V. The drainage area of this watershed is confined by the use of earth ridges and dykes. In general the drainage of

this plot results from shoot flow into a natural depression and is then carried off of the plot through confined channel. The watershed, 3.25 acres in area, is unterraced sloping generally to the southeast. A view of Plot Y is shown in Plate V. There is a crop rotation of corn, corn, oats with seeding of clover and clover. The rotation started with second year corn in 1932.

Watershed Plot Z, good rotation terraced plot, was installed in September, 1931. The terraces were constructed

September 11 and 12, 1931. Terraces on the watershed possess the following characteristics.

Terrace	Length Feet	Vertical Interval Foet	Drainage Area Acres	Uniform Grade in./100 ft. Inches	Slope of land per 100 feet Feet
2-1	576	4.05	0.52	3	10.05
Z-2	566	5.05	•69	3	9.61
Z - 3	528	5.16	•60	3	10.75
Z-4	500	4.78	• 59	3	9.54
Z - 5	430	5.01	• 53	3	10.06
Other			.19		
Tota1			3.12		

The measuring equipment was completely installed by October, 1932, at which time hydrelogic measurements were started. On February 17—24, 1934, the northeast boundary was altered so that the area of this plot, including terraces Z-1, Z-2, Z-3, Z-4, and Z-5, was

nearly the same size as Plot V and Plot Y. Surface drainage resulting from terraces on this plot is concentrated into a terrace outlet and is then diverted to the measuring equipment. This plot sloping generally to the northeast has a crop rotation of corn, corn, oats with a seeding of clover and clover. The rotation on this area of 3.12 acres started with second year corn in 1932. A view of Plot Z is shown in Plate VI.

IV. Instrumentation.

Pain Gages. The rain gages used at this station are
Friez weighing and recording rain and snow gage or Standard
Weather Bureau rain gage. Charts on the Friez type gage are
changed once a week and after each storm. Table 1 shows date
the rain gages were installed and other characteristics relative
to their installation and operation. The location of each rain
gage on this farm is shown in figure 1. The area of each watershed over which the records from each standard Weather Bureau
rain gage applies is shown in table 2. The area of each watershed over which the records from each weighing and recording
rain gage applies is shown in table 3.

Flumes and Silt Samplers. Equipment used to measure soil and water losses for all plots consists of the following:

Parshall measuring flume, water level recorders, wooden silt box and Ramser silt sampler with a side tank to hold sample of runoff.



Pictures of measuring equipment for Plots V, W, X, Y, and Z are showm in Plates VII, VIII, IX, X, and XI, respectively. Table 4 shows kind and date of installation of measuring equipment. After run-off has occurred from any one plot the charts are removed from the water-stage recorders and replaced with new charts. A record is made of the amount of runoff in the silt box and a representative sample is taken to the laboratory. All run-off which is saved in the side tank during the period of run-off is removed, weighed and a representative sample is taken to the laboratory where the number of pounds of soil are determined per cubic foot of sample. Total run-off is determined from the hydrograph or from the amount left in the silt box and side tank, provided there is no hydrograph. The total soil loss can be determined by applying the sample factor, (pounds of soil per cubic foot of run-off) to the figure of total run-off. The total pounds of soil loss is then converted into tons of soil loss per acre.

V. Graph and Tabulation Sheets

All storms where the total rainfall was 0.20 inches or more were recorded on Form SCS-345 for the years 1934 to 1938, inclusive. Graph sheets were prepared showing rainfall intensities and accumulated rainfall for all storms where a hydrograph was obtained from one or more watersheds. Recording rain gage charts were reproduced on the graph sheets using the record most nearly representative of the precipitation on the watershed under

Missouri Valley Loess Region Clarinda, Iowa

Table 1. WATERSHED INSTRUMENTATION Rain Gages

11		н		8		1	4	!	i	1
	Remarks	Wirc fence	op	Wire fence	qo	Clock box	do	2" x 4" terrace marker	Wire fence	2" x 4" terrace marker
	Height of Obstacle above top of Rain gage. (ft.)	2	qo	7	do	5	до	7	7	7
	Dist. to Nearest Obstacle (ft.)	75	qo	5	do	25	do	30	25	35
1" on	Equals Rainfall Dcpth (in.)	79.0	ļ	.67	1	.67		I	1	1
Scale	Chart Time (min.)	62.7		62.7		62.7	1		-	
	Date of Installa- tion	Nov. 1931	Nov. 1931	Nov. 1931	Nov. 1931	June 1931	June 1931	Jan. 1937	Jan. 1937	Jan. 1937
	Type	Fergusson	Standard	Fergusson	Standard	Fergusson	Standard	Standard	Standard	Suandard
	Gage No.	Plum Creek #2	Plum Greek #2	Tarkio Creek #1	Tarkio Creek #1	Tarkio Creek #2	Tarkio Creek #2	Tarkio Creek #5	Tarkio Creck #7	Tarkio Creck #8



Table 2. PERCENT OF EACH WATERSHED AREA SERVED BY THE NON-RECORDING RAIN GAGES

Clarinda, Iowa 1934-1935-1936

		_	-17777-1770		
Watershed Plot					carkio : Tarkio cek #7:Creek #8
	:	•	:		:
V	:	•	: 100.0	:	:
TAT	•	•	: 100.0	:	:
34	:		: 100.0	: :	:
Х	:	2.1	: 97.9	:	:
37	: (7.7	: 750	:	:	:
Ţ	: 61.1	15.3	: 23.6	:	:
Z	53.6	46.4	•		: :

1937–1938						
V	: /		: 66,80	1.41	31.79	
W	:		24.73	75.27		.
Х	:		:	100.00		
Y	5.46		:	94•54		•
Z	1.75	0.26	:	4.12		92.86



TABLE 3.- PERCENT OF EACH WATERSHED APEA SERVED BY THE RECORDING RAIN GAGES

Clarinda, Iowa

	1934-1935-1936	
Plum Creek #2		Tarkio Creek #2
	:	100.00
		100.00
		1.00.00
70.32		29.68
100.00	:	
	1937–1938	
	; :	100.00
	:	100.00
	0.94	99.06
60.26	14.76	24.98
54.24	45.76	
	70.32 100.00	70.32 100.00 1937-1938 0.94 60.26

consideration. Rainfall intensities were determined from increments of rainfall for time periods during which the gage chart showed constant slope, i.e., between break points on the recorded graph of accumulated rainfall. The total amount of rainfall for each watershed was computed from a mean of standard gage measurements weighted in accordance with the Horton-Thiessen method. The percentage of each rain gage reading applicable to each watershed is shown in tables 2 and 3.

Parshall rating table was used in converting stage in the flume to rates of run-off in cubic feet per second. The minimum value of stage covered by the published table was 0.01 foot. The rate of run-off curves (hydrographs) was computed by applying the discharge rating table to the stage heights where a change of slope occurred on the water-stage chart and at intermediate points. The accumulated surface-run-off graph was derived from the hydrograph by averaging ordinates on the rate-time graph and multiplying them by the time interval between ordinates.

VI. Published Reports Relative to Watersheds Plots V, W, X, Y, and Z.

Soil and Water Conservation Investigations at the Soil Conservation Experiment Station, Missouri Valley Loess Region, Clarinda, Iowa. Progress Pepert 1931-35 - by G. W. Musgrave and R. A. Norton. U. S. D. A. Technical Bulletin 558 - February, 1937.



Investigations in Seil and Water Conservation, Seil Conservation Experiment Station, Missouri Valley Loess Region, Clarinda,

Iowa. - by R. A. Norton, O. R. Neal and L. H. Schoenleber - year,

1936.

Investigations in Soil and Water Conservation, Soil Conservation Experiment Station, Missouri Valley Loess Region,
Clarinda, Iowa - ry R. A. Norton, O. R. Neal and L. H. Schoenleber - year, 1938.

Remer ks		ta bel	(fetsat	recorders	are two	
. ene nt		Yearly	op	op	ο p	Ŷ
Frequency of field checks sro on Flume Settl gage dimensions		Yearly	ĝ	op	οp	qo
Frequer Zero on Eage		Weekly	op	op G	op	op
Date of installation		0ct., 1932 Aug. 24, 1938 Weekly	April, 1994 Aug. 23, 1938	Αρπ1, 1934 Sept. 30, 1938	Oot., 1932 Aug. 8, 1938	0ct., 1932 Aug. 10, 1938
Remser silt sampler Capacity of silt box	cubic feet	859	%	1450	1120	28
Scales: Smallest division equals Time Gage helght	feet	0.025	.025	88	.025	.025
Scales: division Time	inches minutes feet	10	10	10	10	10
Max1- mum range	inch es	32 10 10	22	18 24	22	22
Make and type		Bristol, Pressure Friez, FW-1	Bristol, Pressure Friez, FW-1	Bristol, Pressure Friez, FW-1	Bristol, Pressure Friez, FW-1	Bristol, Pressure Friez, FW-1
shall flume Mate- Maxi- rials mum depth	Inches	9	. 58	22	9	O ⁺
Parchall flume Mate- Maxt Size riels mum			tte	ont besins	₫¶¶	
Pa. S1 ze	feet	a	op	op	op g	op
Water		Plot V	Plot W	Plot X	Plot I	Plot 2





Plate I. Southeast portion of plot V showing location of measuring equipment.

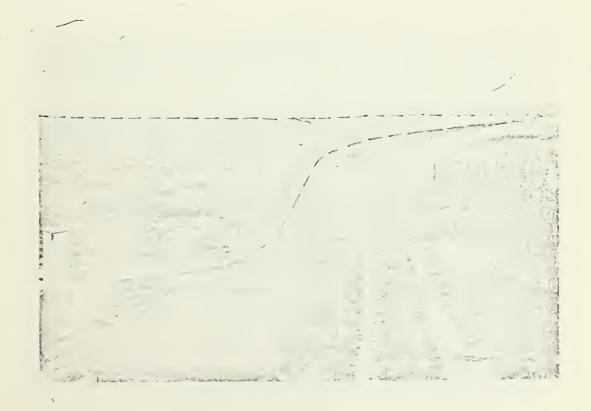


Plate II. Northwest portion of plot V showing location of measuring equipment.





Plate III. Plot W showing location of measuring equipment.

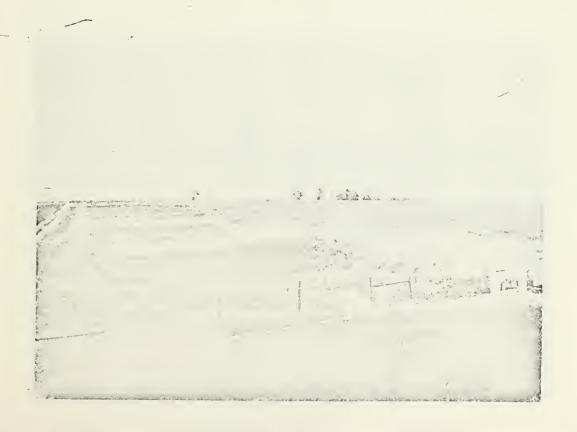


Plate IV. Plot X showing location of X terraces and measuring equipment.





Plate V. Plot Y showing boundary location.

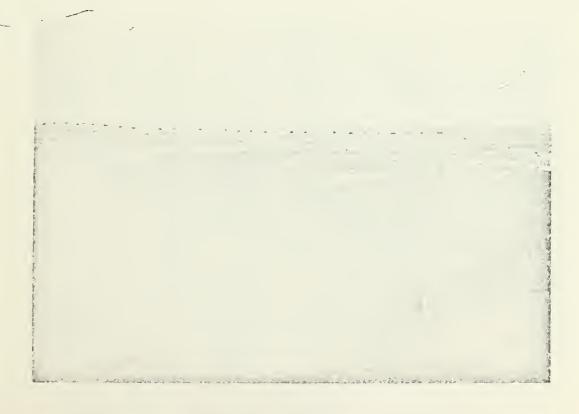


Plate VI. Plot Z showing location of Z terraces.





Plate VII. Measuring equipment installed at plot V.



Plate VIII. Measuring equipment installed at plot W.

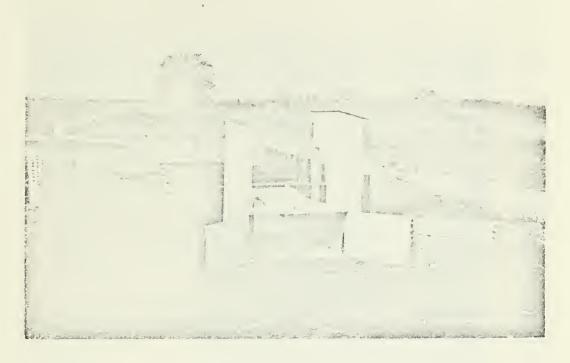


Plate IX. Measuring equipment installed at plot X.

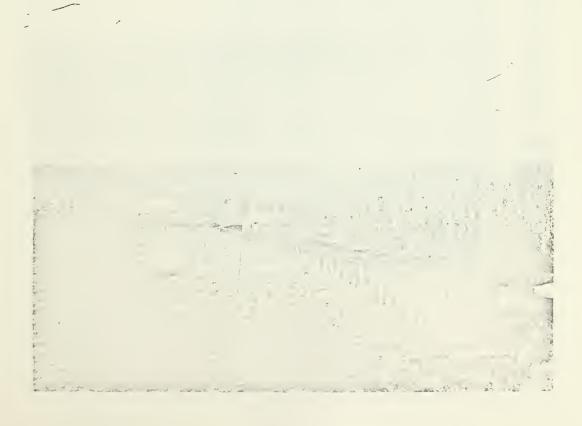
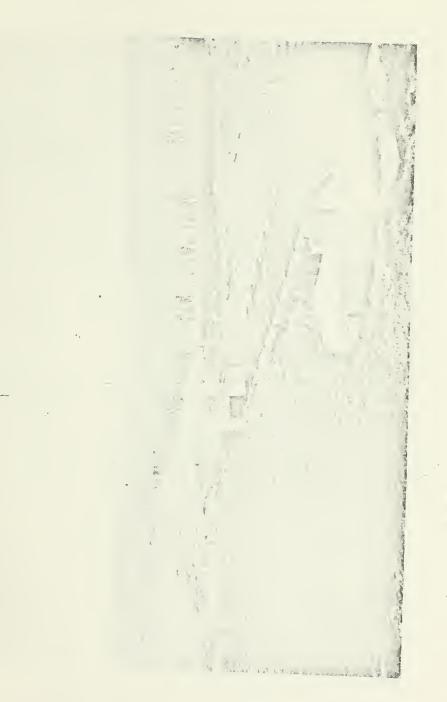


Plate X. Measuring equipment installed at plot Y.





Plot XI. Measuring equipment installed at plot Z.



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UNITED STATES DEPARTMENT OF AGRICULTURE

SOIL CONSERVATION SERVICE
DIVISION OF RESEARCH

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

19 34 Monra April, New, June

2 SHEET

	CONDITION OF WATERSHED		(18)					•	+											Red Clover 9" high, Fair stand.	Osts 1," high. Good stand.	Dod Cloudy 10" Neb Bair stord	CICKOT AND HARMAN	" " 9" high. " "		design states and the state of												
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UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE DIVISION OF RESEARCH

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UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE

DIVISION OF RESEARCH

Month August, September , 19 34

SHEETS Oats 3" high. Good stand. 5 (61) OF. 3 SHEET (tons per acre) 100 -dol'one -do--op-- op -0p--0P -op--0 p-10p 10p-Nono 100 -0p-100 None None Pop 100 100 -do--0p 100--do-None -0p--op *fone RADITALL MISUS RUN-OF (Inches) 4 4 00 of 5 01.10 1,16 2882 2329 99 វាដូវ 16 16. 1.8 20 9 RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS on Sheor on Shee Time (16) MAXIMUM BATE data Co. ft. nec. data (13) 25 & 26 Nono -0p-- op -25 A None -0p-Amount (Inches) - op--op-10p 1000 1.00 None 1op -do-100 10p -0p-100 -op None -q0--100-None -do--do--op--0p--op-None Refer to Lay to 1'3 Ended (bour) (13) Refor Becan (hour) (12) Mistanne 3 333333 333333 22222 . तत्रत्रत्रत्र 99999 99999 TEMPERATURE (dogress F) :: Maxtroum 222222 なななななだ 8 8 8 8 8 8 22222 20 20 20 222222 querating 5 minutes 15 minutes 30 minutes factors per lours (inches per lours) (inches per lours) 888888 888888 EXEXXXX 9 5 8888888 25,55,56 22 23 23 Махімен Інтинятт Gago 22222 888888 37.75 7.75 7.76 7.76 7.76 7.76 7.76 7.76 1.04 ব্বব্রগ্র 1.04 Tarkio # properly 88888 1.32 22202 1.68 3933 1.32 ಹೆಪ್ಪೆಗೆ ತೆಗೆ 00" RASHVALL Amount (Inchue) 3011100111001110011110 20222 334948 ត្រត់ត្រូត 33 35 33 Duration (minutes) 1005 LOST 1005 L 545 2222222 E BEBBB 828282 999999 12:204 12:15a 12:20a 12:15a 7:10P. 7.101 7:360 5.58P 6.12P 7:361 5:49 6:121 7:05 Began (hour) 9 2 = Partio 2 Brrkind Plum 2 Tarkdo2 Plum 2 Barkio 2 Flum 2 Th. rkio 2 Plum 2 Tarktog hrkto2 Plun 2 Br. to 2 Brh 103 Plum 2 Brklo2 Oage No. Plun (Plum 1 lum I lum Plu 3 Clarinda, Iowa 1146 OFFICE 6-12,018 3,12 3,25 3.12 21 42 3.12 3.25 3.12 3.12 2001 3.25 1.97 3.12 Arra (mares) WATERSHED > M MMM > 21 7 >2 14 2 > 3 Mumber Plot lot lot Job 10t 3/25/31 8/31/24 9/243/34 15/52/6 15/17/5--8/31/3h 8 6 4cm PROJECT DATE



Ports B. C. S.-345

UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE DIVISION OF RESEARCH

Mowre Sertember, October , 19 34

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

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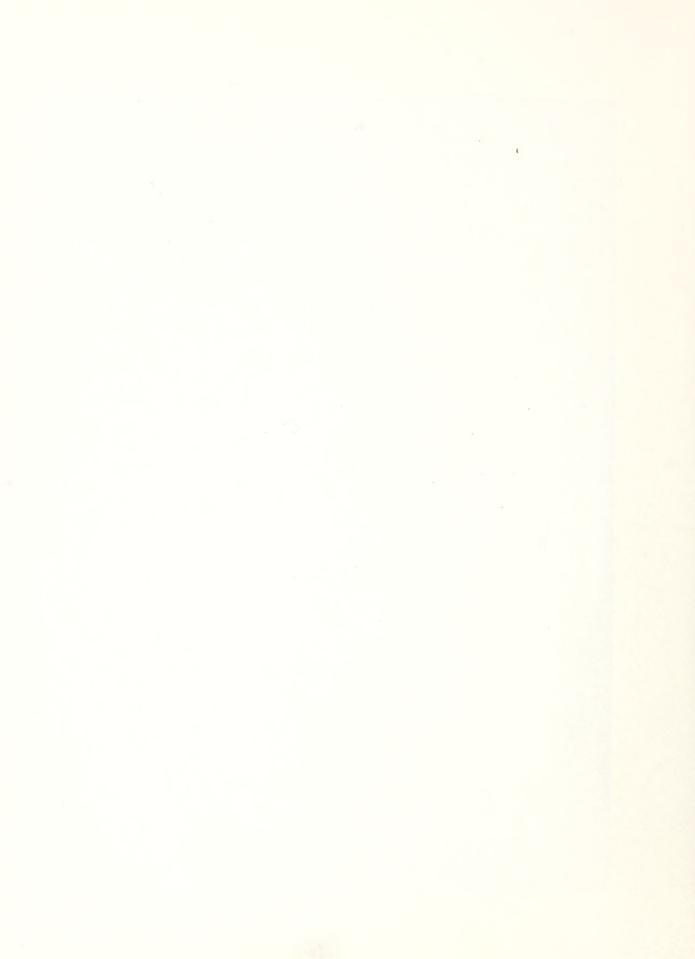
UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE DIVISION OF RESEARCH

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MONTH November

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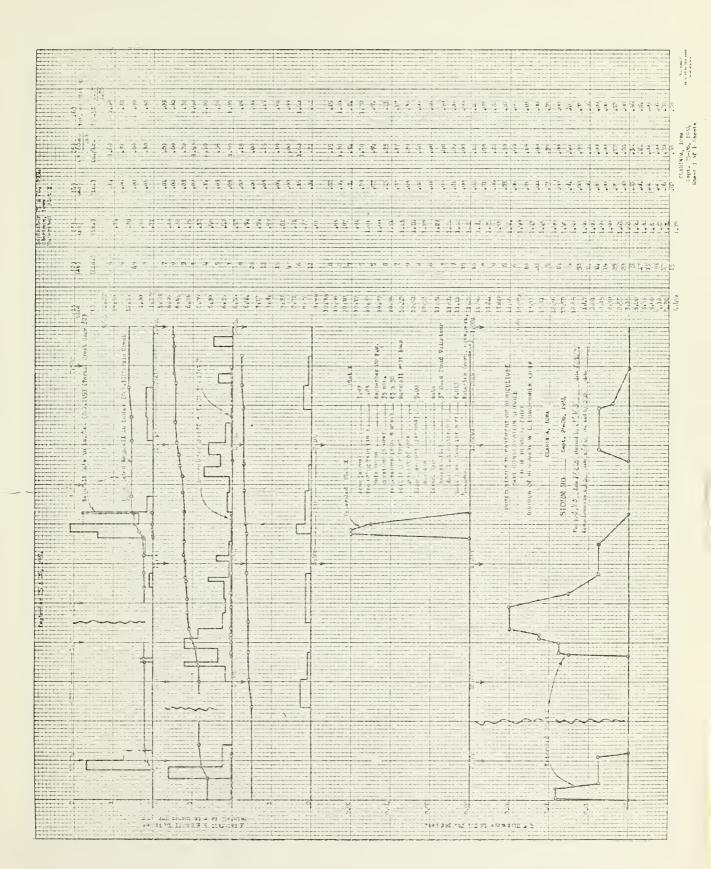


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UNITED STATES DEPARTMENT OF AGRICULTURE

SOIL CONSERVATION SERVICE DIVISION OF RESEARCH

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MONTH Jan. April, May

Sod of Volunteer Oats.Winterkilled Ground Frozen. SHEET'S Red Cl. sod. Ground frozen. Red Cl. god, Ground frozen. No hydrograph obtained. CONDITION OF WATERSHED OF. SHEET Spr Loss (tons per acre) .002 None 90000 .012 None -0p--op-None -op-10p -op-None -op -op-None None -op--op -0p -op--op -0p -0p 3 -0p 0.30 2222 18 18 21 30 त्रते ते*त* (17) 글인정의 8,8,8,8 3 RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS Time (16) MAXIMUM RATE Cu. ft. sec. (19) to 1/19/39 rain to 1/19/39 rain Refer to 1/19/39 rain Amount (inches) -opdo None -op-None 0007 None -op--0P None None -op -do--0p -op--0.0-Faded (hour) Refer Refer Began (hour) RRRR 2 3388 17 8888 53 dadd 3333 3 力力力力 TEMPERATORE (degrees F) 36 3333 2222 2222 d 2222 333232 888888 उउउ४ उ४ 8,88 MAXIMUM DITERMITY 16 minutes notes per hour) 888888 888888 444%4% 8 8 8 8 8 222828 24 24 24 24 28 24 24 24 24 28 222323 2222 BAINTALL Amount (luchos) ស្តីស្តីស្តីស្តីស្តីស្តី 22222 888888 Duration (minutes) 210 210 210 210 210 173 888888 222022 ちなないない 222222 Plun 2 8:35P Tark,2 7:45P Plun 2 8:35P Plum 2 1:45P Tark.2 1:35P Plum 2 1:45P Plum 2 1:16A Tark,2 1:15A Plum 2 1:16A Tark 2 12:0013N Plum 2 | 11:59P. Tark.2 12:00MN Plum 2 11:59P Terk.2 7:45P 9,20P 8.13P 8:20P 8:18P 9:10P Plum 2 9:20P Tark - 2 9:10P Tark.2 1:35P Hogan (hour) Tark.2 Plum 2 Tarko2 Plum 2 Tark 2 rark.2 Oner No. Flum Clarinda, Iome 3.25 3.25 3.12 3.12 3.12 3,12 3.25 3.12 3,25 3.25 April Acres WATERSHED Plot Plot Plot P10t Plot 5/12413/35 1/18/25 PROJECT 1/18/35 DATE 5/11/35



Porm 8. C. N.-315

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WATERSHED

PROJECT

UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE DIVISION OF RESEARCH

box. 1935 ready for plready for pl-SHEETS box 811t 811t CONDITION OF WATERSHED run-off caught in run-off caught in ထ & harrowed recorn. (18) OF hydrograph. hydrograph May Q Plowed anting Plowed A No A11 MONTH A11 SHEET Strr Loss (tous per acre) 0.003 ·007 -do-None None 10p -op--op--op-None -op None 9 None None None -op-None -0p None RAINFALL MIN MUN-OFF (Inches) 28.00 28.00 28.00 29.00 20.00 19 4 13 .63 .85 .78 ₽.78 • 78 25.20 18 궁금막궁 고고급급 ব RUN-OFFS ON VARIOUS WATERSHEDS Time 16 MAXINIM RATE * (22) Cu. ft. /35 storm 75 storm RUN-OFF Amount (Inches) None None -op-None 008 015 None None -op -0p None None None -op--op-None 5/20/ 2/20/ Ended (hour) (13 40 0 Refer Refer Began (hour) Tablemantone (degrees F) Minto THEIR 3533 ででで 17 5555 3 2233 97 97 2223 2222 2 28.58 28 58 2229 3 S S S S S 3333 13 5 555 19 1959 RECORD OF SINGLE STORMS AND 8888888 888888 8 8 8 8 8 8 888283 3 3 2 3 8 8 MAXIMUR INTERNITY 333838 888888 ನನೆನೆನಿನೆನಿ .08 88288 8 8 8 8 8 8 马马马马马司 888888 **ਹਰ**ਰ ਸ਼ਹਮ RAINPALL Amortal (inches) 288923 경구락목경목 242 \$82 782 खं Pareston (minutes) 185 12:204 415 12:154 358 350 250 55 358 2002 300 300 Plum 2 10:30P 1 Tark 2 9:00P 5 Flum 2 10:30P 4 11:05A 10:30A 11:05A 12 120A Plum 2 12:15A 10:30A 3:25P 9:00P 4;25A 3:08P 2:15P 3:08F 4:25A 4:25A 4:28A 2:152 Regard (bour) Plum 2 1 Tark 2 1 Plum 2 1 Tark.2 Plvm 2 Terk.2 Plum 2 Plum 2 Tark 2 Flum 2 Tarkel, Tark.2 Plum 2 Brk.2 Tark, 2, Park,2 Tark 2 Once No. Clarinds, Iowa

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Rainfall computed by using Horton's Method of proportioning rainfall.

No hydrograph.

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None None

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None

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UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE DIVISION OF RESEARCH

, 19 35 Monry May June

SHEETS ထ SHEET

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

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Variable Control Con	(a) 7.25 Tark 2.7 Tar				(8)	9				(inches)	Ca ft. 166.	Time			
V 3.25 Tarker 1015F 540 1.39 2.44 1.00 0.80 77 98 Prinza 11.020 0.009 0.007 12.17 1.29 0.004 X 1.57 Tarker 1015F 540 1.39 2.44 1.00 0.80 77 98 Prinza 11.00 0.009 0.007 12.17 1.29 0.0004 X 1.57 Tarker 1015F 750 1.39 1.00 1.30 1.00 1.30 1	V 3.25 Tark.2 X 1.97 Y 3.25 Plum 2 Z 5.12 Plum 2 Z 5.12 Plum 2 W 1.97 X 1.97 Y 3.25 Tark.2 Z 5.12 Plum 2 Y 3.25 Tark.2 Y 3.25 Tark.2 Y 3.25 Tark.2 Y 3.25 Tark.2		884888		1	(10)	=	-		(14)	(18)		(47)	(13)	(18)
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V 3.05 Tark C 6.07 90 1.18 21 1.21 1.20 1.18 1.19 1.10 1.18 1.10 1.18 1.10 1.18 1.10 1.18 1.10 1.18 1.10 1.18 1.10 1.18 1.10 1.18 1.10 1.18 1.10 1.18 1.10 1.18 1.10 1.18 1.10 1.18 1.10 1.18 1.10 1.18 1.10 1.18 1.10	V 5.25 Tark.2 X 1.97 " X 5.25 Tark.2 Z 5.12 Plum 2 Z 5.12 Flum 2 V 5.25 Tark.2 X 1.97 " X 1.97											1	1	-	
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1 2.4.2 Paris, 2 51595 115 2.21 2.21 2.21 2.22	7. 5.25 Prum 2. 2. 5.12 Plum 2. 2. 1.97 " X 1.97 " X 1.97 X 5.25 Flum 2. X 5.25 F		21.	1	त्र त	000		21		-00-		;	010	-00-	
2 5.12 Flux 2 5:559 115	Z 3.12 Plum 2. V 3.25 - Tark 2. W 1.97 " X 3.25 Flum 2		23	-	70.	. 00		0		- 00			170	-00	
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N 1977	X 1.97 " X 3.25 Flum 2.			- +	1.24	.72	+	-		35 rain.		-			
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X 3.25 Plum 2 8124 145 2.44 1.00 .66 66 59 -40	Y. 3.25 Plum 2			-	1,2,	22.	+	6	-do-						
Time Figure Signar 155 2.44 1.04 .76 .66 59 .64 .60 .66 .64 .66 .64 .66 .64 .66 .64 .66 .64 .66 .64 .66 .64 .66 .64 .66 .64 .66 .64 .66 .64 .66 .64 .66 .64 .66 .64 .66 .64 .66 .64 .66 .64 .6	C -				1.00	8.	+	6	- op-						No hydrograph obtained.
2 3.12 Plum f 8:20A M5 2.644 1.00 .66 .65 .69 .64 .65 .69 .64 .65 .69 .64 .66 .69 .64 .66 .69 .64 .66 .69 .64 .66 .69 .64 .66 .69 .64 .66 .69 .64 .66 .69 .64 .66 .69 .64 .64 .69 .64 .66 .64	Tark.c				1.54	72	-			-					
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	T Z OF Territ O	1		1 20	88	-19.	+	-	4	35					
1.577 " " 90 1.60 .88 .64 66 59 .40 .4	T 1 00 H			00	AR	2	+	i							
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Tark.2 12:30F 90 1:20 1:68 .64 .54 66 59 .40	V 3.25 Plum 2			1.68	8	12	-	6	op						
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N 1.97	V 5.25 Tarke			1.08	X	27-	+		9	22 re1n		The same of the sa			
Y 5.25 Flum 2 9:35P 200 .84 .26 .32 .66 .60 .40 .40 .20 .32 .40 .20 .32 .40 .20 .32 .40 .20 .32 .40 .20 .32 .40 .20 .32 .40 .20 .32 .40 .20 .32 .40 .20 .32 .40 .20 .32 .40 .20 .32 .40	# 150 c	,		000	X 2		-	2 0	000	The same of the sa					
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2 3-12 Flum 2 9:5y P 200 . 8th . 26 . 32 66 60 5/31 6/2	T Joseph Flum Z			1.08	0 0	10	-	2	000						
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V 3.25 Tark.2 4.40 A 115 2.31* 1.44 1.00 .62 66 60 1.15P 7.52 A .067 .125 5.49 A 2.24 .017 N 1.97 " 115 2.31* 1.44 1.00 .62 66 60 9.10A 6.53 A .730 1.90 5.53 A 1.98 1.432 X 1.87 " 1.50 1.20 2.24* 1.40 1.50 .62 66 60 9.02 7.53 A .421 .77 1.69 1.40 .65 Y 3.25 Film 2 4.50 A 120 2.24* 1.69 1.12 .68 66 60 .009 Z 3.12 Film 2 4.30 A 120 2.21* 1.69 1.12 .68 66 60 .009			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				-	_	-			6/2		ì	
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X 1.97 " " 115 2.31 1.44 1.00 .62 66 60 9:02A 7:53 A .421 .37 5:57 A 1.89 .465 X 5.25 Plum 2 4:50A 120 2.21	" 1.97 W		2.31*	1,11/1	1,00	સ		_		.330			1,98	1,432	rgw openers "
Y 3.25 Flum 2 4,50A 120 2.24 1.69 1.12 .68 66 60 .073 2.17 .021 Z 3.12 Flum 2 4,30A 120 2.21 1.69 1.12 .68 66 60 .008 2.20 .003	x 1.97		2.31*	1,41	1.00	29	-			121			1.89	1165	-op-
2 3.12 Plum 2 Li30A 115 1.00 .60 66 60 .009 2.20 .003	V 3.25 Plum 2		2.21.	1.68	1.12	68	ļ			.073	-		2.17	.021	-do- No hydrogra
2 3.12 Plum 2 Li30A 120 2.21 1.68 1.12 .68 66 60 .009 2.20 .003	Tark-2			1-14	1-00	29	-			1	The same of the same of				200
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DIVISION OF RESEARCH

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

SULT RIVERS No hydrograph. Ho hydrograph. 3" high 50 hydrograph. hydrographa. No hydrograph. No hydrograph. Q. to hydrograph. Corra la" high hydrograph Cors 7 kigh A S Corn 7º Mgb Corn 2" high Corn 6" high 400 9 9 9 400 900 -07 -op-Corn 9 -Corn No Second 010 121 121 010 8888 E 88 2 5 2 900 EOES None .001 001 8 ह दर्भ न B883 2,19 श्रु त श 8 2 2 2 2 ನ್ನ 22.15 5 ಭ 752 22,12 STA ST The 61 T. Park MANHETE On R. sec. Con-8 2 K 8 90 38 & 18/25 888 0.00 221 221 221 233 233 8889 8 2 2 8 5007 9 100 Ports. 엻 - op do 1 6/17 21.55 52.38 8.04 11 230 2,41 A 5:11P 5:09P 5:10P 71/17P Refer 11 (17) Voterna 7.3 8 RRRR BRRRR 8 चय चय d 3333 3 3333 B 3355 Z 方方方方 12 본부부부 REERE 24 ಪ್ರಪ್ರಕ್ಷ 덣 2222 12 2222 2 古 388383 888383 នុន្នង្នង 888888 되다라면 되고 MAXINUM DIFFERENCES M mitmales Chebes per bestr) 22,52 888484 388686 555555 ನನನ ಸನಸ A midneyana Omerken per hou 23 28 28 999494 88888 8238868 항성성국성국 র্বর ম্প্র Ê RADIOALL **នុំត្**ត់ត្រូន Amount (lacher) 2.20 117 117 119 .51 *** 15 2000 3 Duration (minorita) 210 28238 888888 570 572 578 578 578 2222E 222323 822323 (a) Flum 2 2:147 A Tark 2 2:38 A Flum 2 2:147 A 2a38A 711,04 7155A 7.104 7.554 5,20P 5:37P 5:20P 5:37P 6125A 4:55P 7:30P 7:45P 7:30P 6:554 6:254 6:554 7:45P Begging (Plum 2 Tark 2 Plum 2 Plum 2 Tark.2 Plum 2 Plum 2 Yerk,2 Plum 2 Plum 2 Plum 2 Plum 2 | Tark,2 | Plum 2 | Tark-2 Tark.2 Tarka2 Tarkel Tark-2 Gage N. PROJECT CLATIDIA, ICHA 3.12 3.25 3.12 28.85 A TRA (econom) 3.12 22.22 3,12 3.12. 3.25 3.12 2252 WATE LOUB rlot Y
" E 7 2 2 (Plot.) 2 1 Plot Plot Plot Plot $\widehat{\mathfrak{S}}$ E . 2 2 2 17418/35 6/10/35 6/11/35 6/20/35 6/3/35 6/6/35 DATE

Whilefall computed by using Horton's Method of proportioning rainfall



Form 8, C, 8, 345

UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE DIVISION OF RESEARCH

PROJECT_ Clarinda, love

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

Month Aune July, August, 1935 SHRETS æ OF SHEET 5

And the last of th	_								(degrees F)	(1 s)								
Dave		! -	-			24	MAXIMUM INTERNET	11			Beerin	Ended	Amount	MAZINUM RATS		RAINTALL MINUS HUN-OFF (inches)	Sn.r Loss (tons per sore)	OCHDINON OF WATERGRED
Number	Area (actres)	Gage No.	Regna (hour)	Duration (minutes)	Amount (inches)	farbes per bour)	15 minutes 39 minutes (factive per hour	30 minutes (inches per hour)	Maximum Minhpun	Minhaum	(hour)	(hour)	(jucpes)	Cu. R. Pac,	Time	(Benom)		
(f)	(3)	(4)	(3)	(3)	(2)	(8)	(d)	(19)	11)	-	(12)	(13)	(14)	(4.5)	(14)	(11)	(13)	=
_		2	61344	100	*6L*	2,00	1,60	8.	8	63	-		0.005			0.78	0.004	Corn 9" high. No hydrograph
E u		£	2	106	*61.	28.23	1.60	-35	80	63	7102A 7	1	.033	94-0	7:09	•76	T60*	Corn 8" high
* *	1.97	2	2	106	*62.	2.52	1.60	84	80	63	6:57A J	11,27	2050	90	6:59	.73	*015	Corn 7" high
H X	3.25	Plum 2 6:	6:14A	70	*62.	2-10	1.48	86.	80	63			100	1		•78	2003	Corn 11" high -do-
-		Tark 2 6	344	106		2.52	1.60	8.	-						-			
2	3,12	Plum 2 6:	- VIII	70	*78*	2-10	1.118	86*	80	23	-	-	-005			a.78	100	Corn 11" high -do-
		-				1		1	1	-		1						1
/35 Flot V	3-25	N N	3-40A	80	* JO *	01 c	1,58	1.24	र्ज व	3	3155A	5126	2000	.31	4115.	98	*036	11
94 2	1.97	2	=	80	*02*	25° S.	1.68	75.7	03			4:21	31	2.01	7:09	25	•956	10" high.
M		-	Ė	80	*10*	2.88	1.68	124	र्व			7:01	120	-29	4:07	•58	-148	11" high.
A .	-		3:40A	.80	*63*	1.B0	1.50	98	3		-		4504			19.	*003	11" high.
	1	42	TOA	90	* 20*	2.88	1.68	1.24	1	-					1	The state of the s		nydrog raph
E 2	3.12	Plum 2 3	TOT	90	* 700	1.80	1.60	- 98	ਰ	23	4:04	4:51	47700	15	4115	*63	6000	Corn. 11" high. Rotary hoed.
1	100	10			707	2,00	00	- 41	0.0	t								
0/20/22 Plot V	200	Tark of	01294	121.	*00	80	O C	4/0	0 0	07		North		1	3	- 67	onon.	2
2	16.7		2	121	200	00,4	3	00,	100	2 5	7:00.4	7111	25.5	- M12	7102	8 9	755	Corn 12" Lite Cultivated Corn.
A	17	. (-	121	3	000	00	000	70	2		1	5003			000	230	Lorn 19 might buttly area cour
D-1			9:05A	135	2	1,20	272	10.	7	70			5003			2	*001	No hydrograph. Mydrograp
1 8	1	V	A P	121	100	DO C	000	-1/4-		0		1				7	Nr.	1
77	1 LG	FINE E	A5056	23	100	7 30	2 30	000	10	2.9		North	and the state of the state of			200	Mone	No mydrographe
1	1	TRIKEL	11472	83	700	2000	51.0	300	7	3 3		MORE	- 1			3,5	anov.	3
	7.607			3	*25	2.15	Z = (R	7.00	- 77 -	31			COO.			16.	2002	-00
P4 :	200			8	त्र ते जि	2.12	2.72	8:	97	60		Norte					Mone	-00-
X	7.620	Free 2	3000	3 5	5 5	22.2	02.00	1-1	75	8		00				00	-00	-00-
* 7	5	Plum 2 11	11 - 30P	3.8	8	100	2,18	1.1	42	\$		190				-80	-00-	-00-
-	444	å	107	2		The same of the sa						9					N N	
7/23/35 Plot 7		Tark-2 7	7:05P	155	27	3,80	1,004	, d ₁	8	En En		None				O. C.	None	
JA u	76" 1		£	155	272	1.80	1.0%	.d.	8	72		-do-				2,7	-qo-	
×	3.97	E	ı.	155	2/18	1,80	1.04		66	22		-0p-				12	-00-	
X H	3.25		7,10P	125	017	10/1/4	889	300	8	2		-00-				070	-op-	
2		Tark.2 7	7:05P	155	412	1,80	1.04	, Q1				1 2					-	
- z	2.12		7:10P	125	0170	1,444	88	203	-86	Er.		-0p-	-			01/0	-0p-	
			15	7	000	000	900		100	F	-				1		N	7
		LIATAGE	27016	2 4	90	200	000	2070	507	3 7		DE ON				030	MONT	No nyarograph
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4 2			1.75	H C	0 0	74.0	8	000	100	7 7		-				200	100	יהסודא די אים זה פוזי החידו אמר מייי
r			acting.	200	40	200	200		7175	101		-000			-	- 670	100	
и 2 и	3,12	Plum 2	5.13p	0	25	2.76	1.00	3 9	102	7/1		-do-				r.	100	
Ĺ																		
/35 Plot V	3,25	Tarka2 2	2,25A	2	1,43	3.72	3,32	2,52	8	75		Nord				1,413	None	
и 19		2	Ė	2	1,12	3.73	3,32	2.2	8	73		-do-				1-13	-dp-	
×	1.97	2	2	20	145	3.72	5.32	22,52	8	75		op-				1,43	-0p-	
		Plum 2 2	2115A	15	1,28	3.84	3.12	2.28	8	33		100				1,28	-op-	
		Tark.2 2	:254	2	1-413	3.72	3.32	2,52		,		and the same						
B 9	2 30		476.0	L	000	0												



UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE DIVISION OF RESEARCH

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

. 19.35

Month August, September

Clarinda, Iona

SHEETS CONDITION OF WATERSHED Ø 19 OF. 9 SHEET Sitt Lovs (tons per nare) 900 None 100 None None -op--op--do--op-None do--op--op--op--0p -op-None 9 -0p--0p -op None -do-P -do-RAINTAIL MINUS HUN-OFF (Inches) 01-11 01-11 01-11 01-11 2223 8888 8 8 8 8 2 1.69 22228 17 28 13 28 8,88,88 Time (10) MAXIMUM RATE Ou. ft. sec. (15) Amount (inches) -0p None None -op--00 None -op--op-None -qp--op-None 00 P -90--0p--op -00--00 000 -op--op--do--0p None Ended (hour) (13) Bogan (hour) (33) Minin un **ತೆತೆತೆ**ತೆ वंबद्ध वं क्रेस्ट्रेस RRRR 4 उ 力 2 2222 22.22 57 TREFERENCE (drugtede F.) 25 Maximum 33,33 8888 8 22222 80 3333 8 22222 65 3338 8 8 90 minutes (inches per hour 888888 £ 2 2 3 3 3 388888 222222 경검검결경결 333333 MAKINUM INTENUES Is minutes (inches per hour) 8 8 8 3 8 3 म् न्यं हे ये ह व्वव्यक्ष 333333 28.88.80 28.88.80 28.88.80 2222 999999 35566 888888 RAINFALL A resorret (teahen) ងងងងង 999898 222828 E 8 8 8 8 8 8 888383 코ə 코르크로 Purythen (minutes) Tark -2 10;00P 50 " 50 Plum 2 11:10P 120 Tark -2 10;00P 50 Plum 2 11:40P 120 11, 100 370 11, 100 390 11, 100 390 1, 100 390 2.57E,418 " 418 " 418 2.18P 422 2.37P 418 222222 2822434 经易定的现象 Plum 2 12:204 fark 2 11:45a Plum 2 12:20A Tark 2 11:45F 11-45P 6:35A 11:45P 61354 Plum 2, 10:35F Tarked 10:35P Plum 10:35P Tark -2, 10, 50P 11:45A Bersa (bour) = Plum 2 Tark 2 Tark.2 Tark .2 Plum 2 fark.2 Plum.2 Plum 2 Tark,2 Plum 2 Plum 2 Terk.2 Ougs Nn. h-12 FA 3.12 3.12 3.12 3,12 A rma (purzes) 3.25 3.25 3.25 5.12 3.25 1.97 3.25 3.12. 3.25 3.25 16.1 1.97 .27 WATPRHED 7 7 N 7 2 Þ Number Plat Plot. lot 8/19&20/35 8/22/35 8/31/35 9/8/35 9/1/35 2/8/22 PROJECT DATE E . . = = =



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UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE DIVISION OF RESEARCH

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Monry Sopt., Oot., Nov.

Corn standing not ploked. No Corn standing not physicageraph. SHEETS No hydrograph. No hydrograph. 8 (1.9) Corn. standing. Corn standing. OP 7 SHEET Rn.r Lose (tons per sure Trace. None ,00d None None None -0p -op--do-None-do-900 -op -op--op -0P None 100 000 -op 900 8 None RAINPAIL MONUS MUN-OFF (10cbes) 급급급급 1.12 22 84 87 2222 .53 888 1.82 12 888 -87 8 RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS Time 98 MAXIMUM RATE Cu. ft .m., to Nov. 4, 1935 storm (15) Amount (incl.ee) RUN-OFF -009 -97 -op-None -0p-010 015 010 None None None None None None 100 None -op--do-90U* -op-- op--0p--0p--0p--op-None Rodel (hour) (13) Rofer Bogsan (boug) (13) Maximum Minimum Talernaantes 2222 况 3233 5 8888 56 27 27 67 67 67 67 3333 # 27 32238 3333 22222 28 2222 38 83 FFFF 2222 2 (Inches per boxu) (Inches per bou 8 8 8 8 8 8 अअधयक्षय ដូនដូនដ 888585 28283 333338 MADNUM INTERNET क्षेत्र संस त्त्र स्वत्र 333535 6 minutes nobes per hour) 888888 333838 86 86 66 なななぬない ななお望る単 なななぬなぬ RAIMPALL Amount (luches) 1,13* 98 8888 888888 <u>ब</u> द द द द द द द 경경경경경경 22222 22222 8 Duration (manufes) 255 255 173 173 173 □ \(\alpha \) \(\alp 678 222222 205 (5) 4:20A 11:45P 12:20A 11:45P 12:20A 5:15A 12:17A 12:17A 12:12A 5:15A 5:20A 5:20A Plum 2 6:27P Tark.2 6:30P Plum 2 6:27P 8:13P 8:10P 8:13P 12:12A Plum 2 4:05A Tark 2 4:20A Plum 2 4:05A 6130P 8,10P Regard (hour) Plum 2 | Flum 2 | Plum 2 | Plum 2 Tark.2 Tark.2 Tark.2 Tark 2 Tark.2 Plum 2 Tark 2 Tark.2 Terkoz Tark . 2 Plum 2 Gage No. Plum £ 2 = Clarinda, Ioma 3.12 3.12 3.12 3.25 1.97 3.12 3,12 3.25 1.97 1.97 3,12 1.97 A read WATERSHED PENH 13 > 3 0.3 2 > % 14 DEMY KKMK 2 Plot lot é ot 301 10/37/35 10/16/35 30/11/25 9/16/35 35/78/11 1/25226/35 PROJECT DATE =



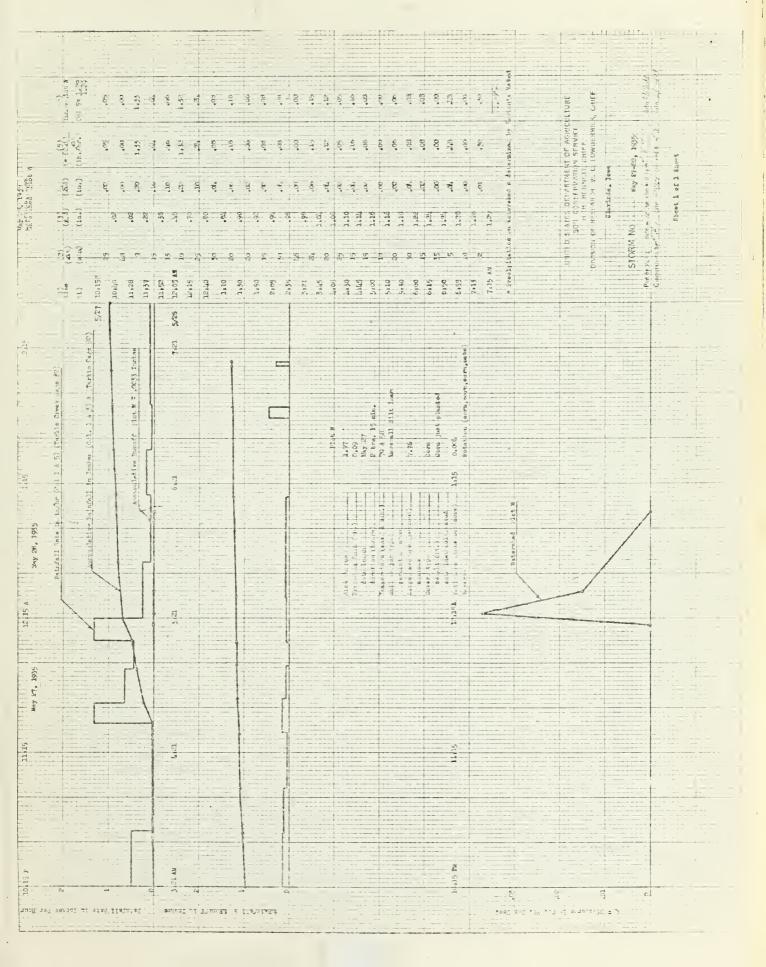
UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE DIVISION OF RESEARCH

, 1935

Month November

SHEETS Сомытюм от Watemento 8 (19) OF ø SHEET Stur Lose (lons per sore) None -do-0001 None -opdo-do--op-RAINTALL MINUS RUN-OFF (luches) 96.98 1.08 E 3-25 3 7 RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS 8:05 Тіпзе MARINIM RATE (16) 0,045 Cu ft. sec. (18) Amount (inched) (14) -do-None None--op--op--op--0p-8:38 Faded (hour) (13) 7:31 A Regau (bour) (12) Minimu BERFESATURE (degrees F) 222222 ನೆನೆನೆ ನೆ 7 2222 37 * Total for Nov. 3 & 4, determined by Horton's Method. ひひひひひひ 6 minntes 15 minutes 30 minutes (inches per hour) (inches per hour) 0 18 18 18 18 18 18 8888888 MAXIMUM INTRINSITY ⁸ त्तं तं तं तं 817 817 817 817 817 **** Amount (luches) ह व व स्र य व व 88888 Duration (migutes) 650 650 650 675 675 Flum 2 9:35A Tark-2 10:10A Flum 2 9:35A Tark.2 10:10A Plum 2 11:15A Tark.2 11:15A Plum 2 11:15A Tark.2 11:15A 2 5 Regar) Onge No. £ £ Clarinda, Iowa 3.12 3.25 3.25 A rem (as 3 ess) WATEHSHED 2 Plot k Plot 11/4/35 11/26/35 PROJECT DATE











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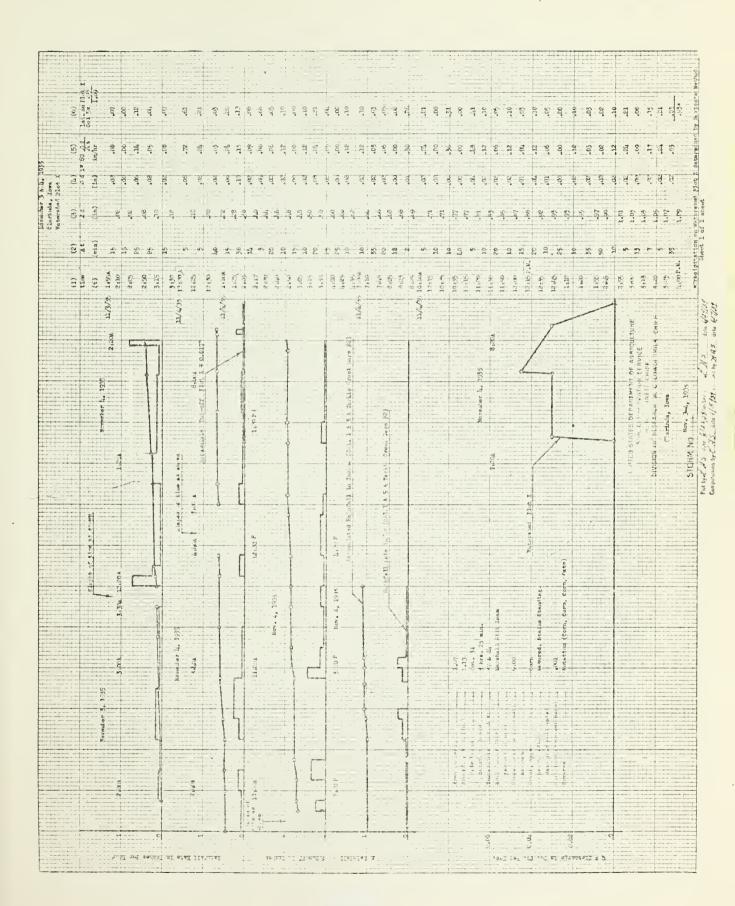


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UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE DIVISION OF RESEARCH

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

MONTH April, May

1936 SHEETS

Dec Dec	Area Gage No. Bagan Duration (norm)	a Blanca	K INTERNATE OF TRANSPORTED IN		Beynn (beur)	Ended	Amount	Манцел	!	RUN-0FF (inches)	Bits Loss (total per sors)	Сомонном от Жатапанар
Note Care	(Acres) Gage No. (Board (Entrology)	å minuten	No minutes		(hour)	Depd	(inches)			(LDCDeb)	-	
10 10 10 10 10 10 10 10		(Inches ner hour)	ner hour) (inches ner hour)	_		(Dour)	(months)	Cu. ft. sec.				
1.97	(4) (6) (6)	(8)	(9) (10)	(11)	(12)	(13)	(14)	(1.5)	(16)	(17)	(18)	
T 1.97	3,25 Tark,2 11:354 170	0,24 0		Ш			None				None	
X 1.07	1.97 " 170	.24	-	<u> </u>			-do-				10-	
	1.97 " 170	.21		-			100				-do-	
1 1.12 11.15 170 .27 .21 .16 .11 .15 .16 .10 .15 .16 .10 .15 .16 .10	3,25 Plum 2 11:30A 170	-24	-	1			-do-				-do-	
2 5.12 Plum 2 11300 170 226 221 1.56 1.06 75 17 170	Tark-2 11:35A 170	- 21	-	-			-do-				-do-	
10t V 3.25	3.12 Plum 2 11:30A 170	.21					-do-				-do-	
	3_25 Tark_2 1,300 90		1.06	1			Mone				None	
"X 3.25 Plum 2 " 90 .64 1.55 Normal 20 1.65 1.65 1.65 1.65 1.65 1.65 1.65 1.65	1.07		3.3				2				3	
X 3.25 France 2 1.30 90 .44 1.55 1.65 1.65 1.75 1.7 .40 .4	1.97		1.06				do				-do-	
"Z 3.12 Plum 2 4.300 90 .64 Instrument not operating 75 L7 .60 .75 L7 .70 .70 .70 .70 .70 .70 .70 .70 .70 .7	Plum 2		not operating	_			400				-do-	
*** Z 5.12 Plum 2	Tark_2 4:30P 90		0 1.06				-do-				-do-	
10 t V 3.25 Nark 2 8;34P 136 3.38 1.32 .76 .18 75 L7 .40	3.12 Plum 2		not operating				-do-			1	-do-	
" X 1.97 1.36	3.25 Tark.2 8.51.5 136	CZ_ 1	-	-			None			!	Non-	
"X 1.97 Plum 2	1.97 " " 136	1,32		-			-do-				-do-	
Y 3.25 Plum 2 3.51 136 .38 1.32 1.35 .37 Instrument not operating 75 17 .40 .40 .37 .40 .4	1.97 " " 136	1.32		-			-do-				-do-	
Total Tota	3.25 Plum 2		not operating	-			do			-	-do-	
Dat V 3.25 To K.2 Bil3P St. 2.0t 1.6t 1.10 87 61 Refer to 1/30 k 5/1 storms. 1.97 1.97 1.97 1.97 1.97 1.97 1.97 1.97 1.97 1.97 1.97 1.97 1.97 1.97 1.97 1.97 1.99	2 8:51.P 136	1.32	1	1			-00-				-do-	
obt V \$3.25 for k.2 81/3P \$1 2.04 1.40 1.10 87 61 Refor to 1/30 & 5/1 storms. 91 2.04 1.44 1.10 87 61 Refor to 1/30 & 5/1 storms. 92 1.50 1.20 1.44 1.10 87 61 Refor to 1/30 & 5/1 storms. 91 1.50 1.50 1.50 85 87 61 Refor to 1/30 & 5/1 storms. 92 92 1.20 1.44 1.10 87 61 Refor to 1/30 & 5/1 storms. 92	3.12 Plum 2	-		-			-do-			-37	-dn-	
X 1.97	3.25 Tr k.2 Bill3P					to 1/30	55	OF IM				
Y 3.25 Plum 2 Bildr 76 .98 .95 .88 87 61 Refer to 1/30 & 5/1 storms. .59 Noise .20 .10	1.97 "			Ц		to 1/30		O. T.				
	3.25 Plum 2 Billip			1		to 1/30		orms.				
10t V 3.25	3.12 Plum 2 8:14P 76	98					None				None	
10t V 3.25		3	-	+			200		-	90		
X 1.97	7 - 25 THEK & 212:597 - 251	00.		1			0.000				POBLIT	No hydrograph
Y 3.25 Plum 2 12 1.08 265 1.35 .72 .52 .32 87 61 .033 1.32 .007 Z 3.12 Plum 2 12 1.08 265 .75 .72 .52 .32 87 61 None .75 None Y 3.25 Tark.2 1.52P 1.63 1.00 1.68 .88 .60 80 58 Refer to 5/9/36 storm, Sheet 2 of 5 Shoets. X 1.97 "	1,97 " 251	88	-	-			308				0.010	No hydrograph
7 3.25	757	3 8	+	-			\$20 \$20				2002	No hydrograph
2 3.12 Plum 2 12:1089 265 .75 .72 .52 .32 87 61 None .75 V 3.25 Tark2 4:52P 463 1.00 1.68 .88 .60 80 58 Refer to 5/9/36 storm, Sheet 2 of 5 Sheets. X 1.97 Plum 2 4:52P 463 .95 .96 .76 .37 80 58 Refer to 5/9/36 storm, Sheet 2 of 5 Sheets. Y 3.25 Plum 2 4:53P 460 .95 .96 .76 .37 80 58 Refer to 5/9/36 storm, Sheet 2 of 5 Sheets. Z 3.12 Plum 2 4:53P 460 .95 .96 .76 .37 80 58 Refer to 5/9/36 storm, Sheet 2 of 5 Sheets.	3.25 Plum 2 12 48P 205	25		-			.022			1034	100.	No nydrograph
Y 3.25 Tark.2 1.52P 1.63 1.00 :1.68 .60 80 58 Refer to 5/9/36 storm. Sheet 2 of 5 Shoets. 2 of 5 Shoets. X 1.97 " " .88 .60 80 58 Refer to 5/9/36 storm. Sheet 2 of 5 Shoets. Y 3.25 Felima 2 1.53P 1.60 .95 .96 .76 .37 80 58 Refer to 5/9/36 storm. Sheet 2 of 5 Shoets. Z 3.12 Pluma 2 1.53P 1.60 .95 .96 .76 .37 80 58 Refer to 5/9/36 storm. Sheet 2 of 5 Shoets. Z 3.12 Pluma 2 1.53P 1.60 .95 .96 .76 .37 80 58 Refer to 5/9/36 storm. Sheet 2 of 5 Shoets. Z 3.12 Pluma 2 1.53P 1.60 .95 .96 .76 .37 80 58 Refer to 5/9/36 storm. Sheet 2 of 5 Shoets.	3.12 Plun 2 12 118P 265	27.		11			None				None	
W 1.97 " " " " 88 .60 80 58 Refer to 5/9/36 storm, Sheet 2 of 5 Sheets. X 1.97 Plum 2 4:53P 460 .95 .96 .76 .37 80 58 Refer to 5/9/36 storm, Sheet 2 of 5 Sheets. Z 3.12 Plum 2 4:53P 460 .95 .96 .76 .37 60 58 Refer to 5/9/36 storm, Sheet 2 of 5 Sheets. Z 3.12 Plum 2 4:53P 460 .95 .96 .76 .37 60 58 Refer to 5/9/36 storm, Sheet 2 of 5 Sheets.	3.25 Tark-2 4:52P 463	1.68			Refer	to 5/9/	36 storm		30	Shoets.		
X 1.97 Plum 2 h153P h60 .95 .96 .76 .37 80 58 Refer to 5/9/36 storm Sheet 2 of 5 Sheets. Y 3.25 Flum 2 h153P h63 1.00 1.69 .89 .60 80 58 Refer to 5/9/36 storm Sheet 2 of 5 Sheets. Z 3.12 Plum 2 h153P h60 .95 .96 .76 .37 60 58 Hone	1.97 " "	1.	-	-	Refer	to 5/9/	36 storm		01 5	1		
T 3.25 Plum 2 L153P L63; 1.00 1.68 80 60 90 58 Mone Z 3.12 Plum 2 L153P L60 .95 .96 .76 .37 80 58 Mone Mone	1.97		-	-			None			_	None	
7 3.12 Plum 2 1.53P 1.600 .95 .96 .76 .37 80 58 None	221 Sept 2 miral 5225	8	+	-		16/6 63	TO SE OF		2 70	PILEGING .		
2 3.12 Plum 2 4:53P 460 .95 .96 .76 .37 89 58 None	Tark 2 4:52P 455	1.68	-	1								
	3.12 Plum 2 4:53P 460	.%	-	1			None			1	None	
						-						



PROJECT.

Clarinda, Iom

UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE

DIVISION OF RESEARCH

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

SHEET_ MONTH

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OF

5

May, June

19 36 SHEETS



PROJECT_

Clarinda, Ioma

UNITED STATES DEPARTMENT OF AGRICULTURE

SOIL CONSERVATION SERVICE DIVISION OF RESEARCH

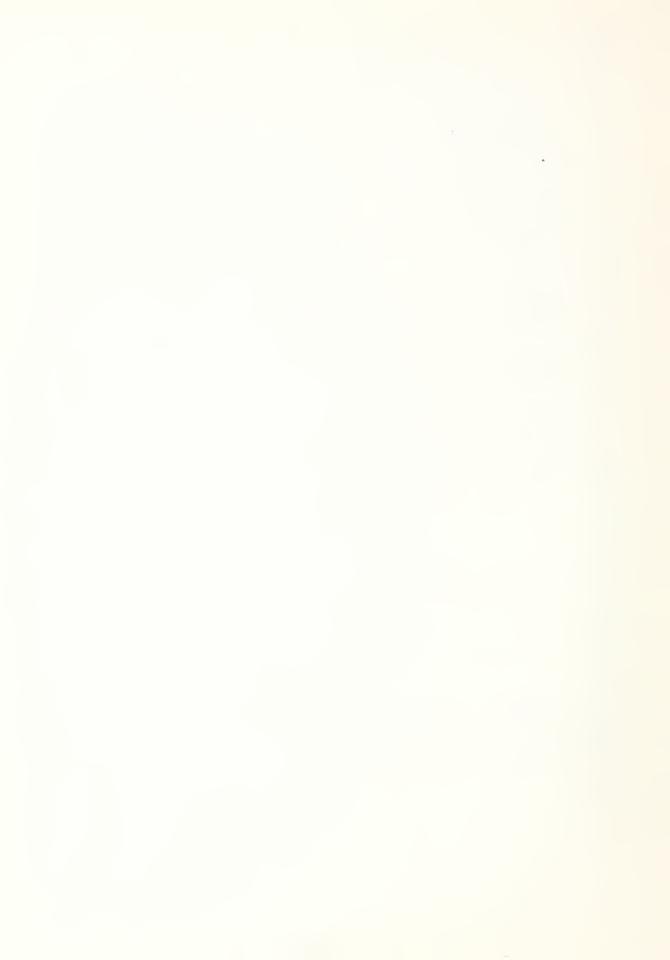
RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

SHEET

SHEFTS

Month August, September ___, 1936 07

9/11/36 6/30/36 3/1/36 7/19/36 8/28/36 8/19/36 M. S. SONSHIPPING PRINTING OFFICE . P - 12305. D491 Plot V Plot_V Plat Plot Plot Plot 3 3 3 2 3 Number 3 3 3 RXMA PEXE KHAK 2 WATERSHED 3 4 1.97 3.25 1.97 2.25 1.97 3.12 3.12 3.25 1.97 1.97 3.25 3.12 3.12 3.12 3.25 3.25 1.97 1.97 3.25 Area Plum 2 Plum 2 Plum 2 Tark 2 Plum 2 Plum 2 Tark 2 Plum 2 Plum 2 Plum 2 Plum 2 Tark 2 Plur 2 Plum 2 Plum 2 Plum 2 Tark.2 Tark-2 Tark 2 Tark.2 Tar Tark.2 Gago No. i 10:30A A05:01 10,30A 12:35A 12:35A 12,39A 25.55 25.55 27.55 27.55 27.55 5,552 7:35P 7:40P 7:35P 7:40P 3:15p 3:17p 3:15p 1:25A 1:25A 1,254 Bagan (bour) 3 22222 170 288288 **8588888** 70 80 80 ENERNA (inches) 888888 यायाय याय 2022 युष्युष्ट्रियुष्ट्र 최정점점점 RADITALL ないないない 2 2 88 2 88 2 88 2 88 888888 ה הה ה ה ה ה MAXIMUM LETRICATE 18 minutes (inches per hour 92 68 92 68 93 68 1.88 368 887 887 877 877 三名 三名 とん 3 inches per bou 38 38 38 51 51 1,100 1.40 1.40 1.28 1.40 1.40 र्ष्ट्रम्पूर्ध मुक्ष 330088 न्य व्यव (10) 0000000 103 222333 **66665** 9999993 90,000,000 TEMPERATURE (degrees F) 63 63 63 555555 5555555 707070 22222 222222 Bagan (hour) (12) (bour) (13) -do--dodo--0b-10000 None do do do dodo do Nop 1 1 1 d op Amount (inches) RUN-OFF (24) Cu. ft. me. (3.5) MAKINUM RATE (14) Time BADFFALL MIN HUN-OFF (Inches) 0.21 1.88 1.83 •30 .36 .70 2550 3253 25 2000 ·30 Str.y Loss (tons per acre) do do None -do--do-do do do do o do Non (II) (15)



UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE

SOIL CONSERVATION SERVICE DIVISION OF RESEARCH

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS MONTH SHEET

September

, 19.36 SHEETS 1

	WATERGEED				BAUTTAL	TH.			THEFERATURE (degrees F.)			Run-off					
Color Colo							MAXIMUM INVESTOR	3		,	\dashv	\dashv	MAEIN	KAYB MA	RAINTALL MINUS	STLT LOSS	CONDITION OF WATERMEND
1. 1. 1. 1. 1. 1. 1. 1.		Oage No	(hour)	(minutes)	(inches)	8 minutes (inches per bou	15 minutes (inches per bour)	30 minutes (inches per hour)					Cu. ft. aoc.	Time	(amounter)		
	(2)	(4)	(8)	(6)	(7)	(8)	(6)	(10)	(11)	(12		(14)	(1.6)	(36)	(17)	(18)	(19)
No. 1.97	Plot V	Tark.2	5	\vdash	مرا	1.08	0.52	38				None			0.40	None	
X 1.97	"	2	,	-	2.5	1.08	N	38				-do-			210	-00-	
X 3.25 plum 2 hi/fp 200		3		200	5	1.08	3	38	_			i do			7.0	101	
1	Y	թյրա 2	ar.1.1	-	30	72	5	3				4			30	do	
Table 1,107 1,10		Tark 2	-	-	Jio	1.08	23	.38	_			-do-				-do-	
Plot V 3.25 Print 2 9140 60 .39 1.08 .72 .58 98 66 .80 .80 .39 .80 .72 .58 98 66 .40 .39 .39 .39 .39 .39 .39 .39 .39 .39 .39 .30	2	Plum 2	+	-	.30	27.	Orle	23	-			-do-			.30	-do-	
No. 197	Plot V	Tark 2	9.1.0	Ť	39	1.08	5	558	-	-		None			39	Mono	
X 1.97	73	3	3		39	1.08	73	.58				-do-			29	-do-	
" X 3.55 plum 2 9;13p 65 .31 1.08 .60 .50 98 66	×	=	3	8	-39	1.08	.72	58				-do-			.39	-do-	
	+ i	Plum 2	-		.31	1.08	.66	.50				100			•31	100	
5 Plate V 3.25 Rank-2 913F 65 31 1.08 .60 .50 98 66 .30 .30 .30 .30 .30 .30 .30 .30 .30 .30	3	Tark.2			•39	1.08	2	-58	-			4				-do-	
Space V 3.25 Rark 2 9.05A 175 .34 .36 .28 .21 71 68 Mone .34 "X 1.97 "" 175 .34 .36 .28 .21 71 68 .40 .34 "X 1.97 "" 175 .34 .36 .28 .21 71 68 .40 .34 "X 1.97 "" 105 .39 .36 .28 .21 71 68 .40 .39 "X 1.97 "" 107 .37 1.32 .92 .58 .71 68 .40 .37 "X 1.97 "" 107 .37 1.32 .92 .58 .71 68 .40 .37 "X 1.97 "" .37 1.32 .92 .58 .71 68 .40 .37 "X 1.97 1.00 .38 1.02 .92 .	. 2	Plum 2	-		.31	1.08	.60	-50	-	+		40-			•31	do-	
" X 1.97 " 175 .34 .36 .29 .21 74 68 .40 .40 .39 .39 .39 .39 .36 .29 .21 74 68 .40 .40 .39 .39 .39 .30 .30 .39 .39 .30 .30 .39 .39 .30 .30 .39 .39 .30 .30 .39 .39 .30 .30 .39 .30 .30 .39 .30 .30 .30 .39 .30 .30 .30 .30 .30 .30 .30 .30 .30 .30	Plat V	Tark 2	_		. XJ.	. 36	.28	थ				Nope		-	31.	None	
X 1.97 175 .34 .36 .28 .74 .69 .40 .39 .36 .24 .22 .74 .69 .40 .40 .39 .39 .36 .24 .22 .74 .69 .40 .40 .39 .39 .36 .24 .22 .74 .69 .40 .40 .39 .39 .36 .24 .22 .74 .69 .40 .40 .39 .39 .39 .36 .24 .22 .74 .69 .40 .40 .39		3	-	+-	-31	.36	28	22				-do-			-3/1	40-	
	×	3	3	175	•34	•36	.28	•24	L			-do-			+15.	-do-	
	×	Plum 2	-	_	-39	1.36	2	13	-			100-			.39	100	
	-	Tark.2	-	+-	• 344	0,00	P. 2	-21	+		-	100		-		-00-	And the second of the second o
Plack V 3.25 Tark.2 5;10p 107 .37 1.32 .92 .58 74 .68 .40 .37	7	F WALLE	71504		.29	30				+		100-				90	
	Plet V	Tark		1-1	.37	1,32	%	•58				None			.37	None	
X 1.97 1.07 .37 1.32 .92 .58 .71 68 .92 .93	3	3	+	+	-37	1.32	8	-58	-			do-			•37	400	
Y 3.25 Plum 2 1,1504 104 .38 1.08 .92 .74 68 .40 .40 .38 .84 .52 .74 68 .40 .40 .38 .40 .40 .38 .40 .4	×	3	-	1	-37	1.32	32	85.6	-			-00-			-37	-do-	
Plat V 3,25 Fark 2 1,50p 107 378 1,32 392 358 74 68 40- 40- 21 1,22 1,527 74 68 40- 40- 21 1,527 75 21 1,522 380 410 79 56 40- 22 1,22 1,522 1,523	M	Plum 2	_	-	#38	1,08	•84	13	-		-	-do-			€38	do	
Plot V 3.25 Mark.2 6:159 55 .2h 1.92 .80 .h0 79 56	7	Fark o	\rightarrow	-	×37	273	2 3	358	1	+	-	1001			38	1001	
Plot V 3.25 Mark 2 6:15P 55 .21 1.92 .80 .10 79 56 Mone .21 n X 1.97 n 55 .21 1.92 .80 .10 79 56 .40- .21 n X 1.97 n 55 .21 1.92 .80 .10 79 56 .40- .21 n X 1.27 plum 2 6:15P 55 .21 1.92 .80 .10 79 56 .40- .25 Plum 2 3.12 plum 2 6:01P 75 .25 1.68 .76 .38 79 56 .40- .25 Plum 2 3.120 plum 2 3:70A 800 1.52 .18 .11 .38 60 .16 Mone 1.52 n X 1.97 n 800 1.52 .18 .11 .38 60 .16 Mone .40- 1.52 n X 1.97 n 800 1.52	it			-						1							
No. 1.97 No. 1.98 1.98 1.90 1.92 1.98 1.90 1.92 1.98 1.90 1.92 1.	Plot V	S AT EL	6:15P		2	1.92	.80	J.O				None			अ	None	
X 1.97	2		3	†	2	1,58	.80	Lo	-			40-			221	-do-	
X 5.25 Park 2 6:01P 75 25 1.68 .76 .38 79 56 .40- .25	×	3	+		.2	35.1	.80	240	+	-		-do-	-		,24	doi	
Tank 2 6.15p 55 25 1.68 .76 .38 79 56 .46- .25	×	Plum 2	-	Τ	25	1,68	•75	38	1			- do			-25	100	
T 3.12 Plum 2 6:01r 75 .25 1.68 .76 .38 79 56 .40- .25	-	Tark.2	+	T	-24	1,92		01/0	-			100				100-	
Plot V 3.25 Rark.2 3130A 800 1.52 JB JJ 38 60 L6 None 1.52 " X 1.97 " 800 1.52 JB JJ 38 60 L6 -do- 1.52 " X 3.25 Plum 2 3131A 610 1.48 .60 .36 .24 60 L6 " Z 3.12 Plum 2 3131A 610 1.48 .60 .36 .24 60 L6 1 1 2 3131A 610 1.48 .60 .36 .24 60 L6 1 1 2 3131A 610 1.48 .60 .36 .21 60 L6 1 2 3.12 Plum 2 3131A 610 1.48 .60 .36 .21 60 L6 1 2 3.12 Plum 2 3131A 610 1.48 .60 .36 .21 60 L6	2	Plum 2	_	1	25	1.68	.76	.38	+			-0 P			-25	-do-	
N 1.97 N 800 1.52 1.6 1.6 -40- 1.52 1.52 1.97 N 800 1.52 1.16 1.14 3.8 60 1.6 -40- 1.52 1.52 1.52 1.52 1.52 1.53 60 1.6 -40- 1.48 1.52 1.53 60 1.52 1.48 1.52 1.48 1.53 60 1.52 1.48 1.53 60 1.52 1.48 1.53 60 1.52 1.48 1.53 60 1.53 60 1.53 1.53 60 1.53 1.53 60 1.53 60 1.53 1.53 60 1.53 1.53 60 1.53 1.53 60 1.53 1.53 60 1.53 1.53 60 1.53 1.53 60 1.53 1.53 60 1.53 1.53 60 1.53	olot v	3,1		-+	3	J.8	2,3	85	4			None		-	2.23	None	
X 1.97 " 800 1.52 .48 .4½ .38 60 ½ .40- .152 Y 3.25 Flum 2 3.31A 610 1.½B .60 .36 .2½ 60 ½ .40- .24- .4B Z 3.12 Plum 2 3.31A 610 1.½B .60 .36 .2½ 60 ½ .40- .40- .2½ Z 3.12 Plum 2 3.31A 610 1.½B .60 .36 .2½ 60 ½ .40- .40- .2½ .2½ Z 3.31A 610 1.½B .60 .36 .2½ 60 ½ .40- .40- .2½ .2½ Z 3.31A 610 1.½B .60 .36 .2½ .60 ½ .40- .40- .2½	3	3		-	23	8,6	- LLL	. 38				-0b-			1.52	10 L	
Y 3.25 Flum 2 3.31A 610 14.8 .60 .36 .21. 60 1.6 -do- 1.48 Z 3.12 Flum 2 3.31A 610 1.48 .40 .36 .21. 60 1.6 .40- .40- 1.418 Z 3.12 Flum 2 3.31A 610 1.418 .60 .36 .21, 60 1.6 .40- .40- 1.418	×	3		800	23	,l ₁ 8	+14/4	.38				-do-			1.52	-do-	
Z 3.12 Flum 2 3.31A 610 1.48 .60 .36 .24 60 46 -40- 1.48	4	Plum 2	_	-	1.1.8	8	.36	21				-00-			1,48	40	
Z 3.12 Plum 2 3.31A 610 1.418 .60 .36 .24 60 46 -do- 1.418		Tark 2	-	-	1.83	81.	101	.38	_			-do-				-do-	
	2	Plum 2	-	+	1.48	.8	-36	2	-	+	-	-do-			1,4,8	-00-	
										+		+					
							_			-							



UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE DIVISION OF RESEARCH

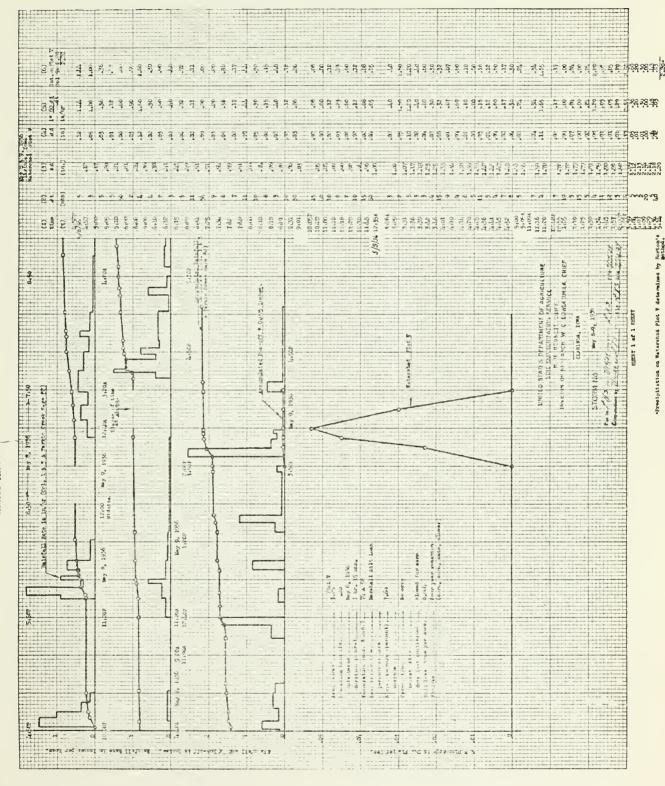
RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

Month Oct., Nov., Dec. 19.36

SHEETS

		WATERDEED				Rainpall	TT.			Tau	TREFERATURE (dogress F)			Rox-077					
Color Colo	Column C							MATRICK LITER	2077	1			1		Max	NOM RATE	BAINFALL MINU	Roze Loan (loan per scre)	Condition of Watermed
Total Color	10		Gage Nr	(bour)	Duration (missutes)	(inches)	6 minutes (inches per hou	15 minutes (inobes per bou	r) (inches per bou			(hour)	(bour)	(inches)	Cu. n. m		ĺ		
	Dody 197		(4)	(8)	(6)	(7)	(8)	(9)	(10)		(11)	(12)	(13)	(14)	(1.6)	(16)	(3.7)	(18)	(61)
X 1.97	1 197	4	fark.2	2:15₽	43	.38	1.08	37.	•66	68	53			None			0.39	None	
X 1.97 Phum 2 2.010 Hz .38 1.00 89 .78 .66 69 59 400 400 400 400 400 400 400 400 400 40	Y 3.25 Pulm 2 2.011 M. 3.99 1.00 .98 .50 .99 .00 .00 .99 .00 .00 .99 .00	4 3	3 3	3 3	1.3	-38	1.08	373	83	68	153			100	-		92°	do	
No.	1.00	4 >	0		= £	28	1 00	98	3	200	53			1	1	1	385	do	
2 3.12 Plum 2 2:017 III 39 1.20 38 .66 69 53 Aone 35 Kone 1.27 Y 3.25 Tark 2 5:161 91 .35 1.14 .56 .30 69 53 Aone 35 Kone 1.27 Y 3.25 Plum 2 1:23 201 .35 1.14 .56 .30 69 53 Aone 35 Aone 35 Aone 2 1:25 Plum 2 1:23 201 .35 1.14 .56 .30 69 53 Aone 35 Aone 3	2 3.12 Plum 2 2.001 III .38 1.20 .58 .50 .50 .53 .40 .55 .50 .53 .40 .55 .50 .53 .40 .55 .50 .55 .40 .55	-	Jark 2		, L	38	1.08	77	86	66	31			do				-do-	
V 3.25 Nark 2 5-160 191 .55 1.11 .56 .30 68 53 Aon35 Aon	V 3.25 Sack 2 5.160 9.1 .55 1.14 .56 .30 60 53 .40 .40 .35 .30 .40 .35 .30 .40 .35 .30 .40 .35 .30 .40 .35 .30 .40 .35 .30 .40 .35 .30 .40 .35 .30 .40 .35 .30 .40 .35 .30 .40 .35 .30 .40 .35 .30 .40 .35 .30 .40 .35 .30 .40 .35 .30 .40 .35 .30 .	2	Plum 2	+	F	38	1.20	88	8	69	53		-	-do-			•38	-do-	
	1.07			+-		1				6	3						4	1	
	1	< <	Tark.Z		161	200	1-1-1	8	200	8	22			None	1		35	HODE	
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Tark 2 5130 201 355 1144 556 300 553 40- 355 40- 355 40- 375		< >	elum >	_	165	35.0	1,20	18	26	8:3	512			0 0			300	1 6	
z 3,12 Plum 2 (1,23) 220 3,5 1.20 1.80 1.80 85 31 -do- 35	Prof. W 1.97	•	Tark 2		191	35 .	1,11	87	•30	8	53			40				-do-	
V 3.25 Tark 2.2 53.265 Lill .355 1.56 .81 .52 58 Lill Mone .355 None X 1.97 -5.265 Lill .355 1.56 .81 .52 58 Lill .40 .355 40 X 1.97 5.156 Lill .35 1.14 .80 .42 58 Lill .40 .35 40 Z 3.12 Phum 2 5.156 Lill .35 1.14 .80 .42 58 Lill .40 .35 40 Z 3.12 Phum 2 5.156 Lill .35 1.14 .80 .42 58 Lill .40 .35 40 X 1.97 -6 .85 3.95 1.472 .96 Lill 20 0.095 .65 No.26 No.26 <td> W 1.97</td> <td>Z</td> <td>Plum 2</td> <td>4-</td> <td>220</td> <td>-35</td> <td>1.20</td> <td>1,8</td> <td>.26</td> <td>68</td> <td>53</td> <td>The second second</td> <td></td> <td>-do-</td> <td></td> <td></td> <td>•35</td> <td>10-</td> <td></td>	W 1.97	Z	Plum 2	4-	220	-35	1.20	1,8	.26	68	53	The second second		-do-			•35	10-	
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X 1-97 Plant 2 5175 144 -355 1.44 -80 -42 58 14 -40 -40 -35 -40	" X J.25 Pum 2 5:28A LH .35 1.56 .84 .52 58 1Hdo- " Z J.12 Pum 2 5:15A LH .35 1.56 .81 .52 58 1Hdo- " Z J.25 Pum 2 5:15A LH .35 1.56 .81 .52 58 1Hdo- " Z J.27 Pum 2 5:15A LH .35 1.56 .81 .52 58 1Hdo- " X J.27 Pum 2 5:15A LH .35 1.56 .81 .52 58 1Hdo- " X J.27 Pum 2 5:15A LH .35 1.56 .81 .52 58 1Hdo- " X J.27 Pum 2 5:15A LH .35 1.56 1.72 .55 LL .50	*	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		F	35	5.5	22.0	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	58	F !			-do-			•35	-do-	
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PROJECT Clarinda, Icra

UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE DIVISION OF RESEARCH

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

Month March & April

SHEET

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, 19.37 SHEETER

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(\$19)	(81)	(17)	(16)	(15)	(14)	(1.3)	(12)	at,	(10)	(8)	(8)	(7)	(6)	(8)	(a)	(3)	(2)	(2)
			t IIII e	CU.II. MA				-	(Inches per hour)	(incher per bour) (inches per hour	(facture per hour)	(constant)	Ton and and	(Property		(m 4 vo)		
٠		(inches)	-	7	(linches)	(hour) (hour)	Minimum Bersh (bour)	Maximum Min	30 minutes	15 minutes	A minutas	Amount	Ouration	(Bound	Gage No.	Area	Number	
CONDITION OF WATERSHED	(total per nore)	RAINFALL MINUS	MAXIMUM RATE		-		,			MAXIMUM INTUNITA	м							Datz
				077	KUN-		-	(dogrees F.)			T	RUNTAL				I HSU IID	W 4	
							-	THEFT										

UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE DIVISION OF RESEARCH

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

SHEET MONTH

SHEEDE , 19.37

April

	WATERSHED	ED.				RAINFALL	Ħ		مر	TEMPERATURE (depress F)	H		HON-OFF					
Dare	-						X	MARIMUM INTERNITI	77	_	:	-	-	Макини Кате		RAINFALL MINUS	SET LOSS	Condition of Watership
Numler		(96756) (96756)	No.	(hour)	Duration (natuates)	Augount (tuches)	6 minutes 15 minutes (inches per hour) (inches per hour) (inches per hour)	15 minutes (Incluse per hour)	30 infinites (Inches jer hour)	Maximum Minimum	(utent)) (hour)	(laches)	Cu ft sec.	Time	(H)		
(3)	2	(3)	(4)	(5)	(4)	(7)	(8)	(8)	(10)	(H.)	(12	(13)	(11)	(1.5)	(10)	(17)	(18)	(19)
7 12	4 r4	3.25	ก้ง	V57:17	265	तंत्र	-811	off	÷32				None			0.42	None	
	< ≥			00	202	5 7	200	2 2 2	200		_					0	100	
-			Tark.	L-Loa	265	20	1.68	61	36		2	1	1			7		
	M	3.25		1 - 40A	275	143	8	81	28			1 1	40-			£143	-do-	
3 3	1			14-45A	265	3 15	81,	- 01/	• 32			-					-	
	2	3.12	Plua 2	VOT: 17	275	130	60	91/1	કું, ફ	LT T9	_		-do-			13	10	A Company of Company o
2	1			4:40A	265	•50	1,68	+64	.36			İ	Ť			;		
L/20/37 Plot	٧		Tark 2	2:160	129	70	2.64	1.32	1.08		_	1	None	0		•70	None	
3	7		b	0	129	,70	2.64	1.32	1.08				-do-			.70	100	
: 3	×	1.97		-db-	139	.70	2.64	1 - 3% - 3%	1,08	12 12			- do-			•70	-do-	A CONTRACTOR OF THE PARTY OF TH
3	4	3.25		2:102	257	8	2.16	1.28	æ 2				-10-	The same state of the		.66	•do-	
3 3				2:16P	\$ E	.70	2.6	1.32	1.08							-	1	
3	7	3.12	Plum 2	2:10P	132	8	2.16	1.28	B.				-do-			8	10	
3 - 3				2:001	50	-54	2,28	1.00	.56		+						1	
121/37 Plot	4	<u> </u>	10	6:/13A	59	5+6	2.16	.92	.76				None			245	None	
3 3	× 74	1.97	100	1 6	59	, G	21.6	8.8	276	100			1 10			55	100	And the second s
	-		-	6:111a	5	26	2.16	8	æ									
3 =	×	3.25		6:131	57	1 20	2.04	8,8	- 84 1-84	140 31	<u> </u>		-do-			816	100	Company of the contract of the
3			Tark.1	6 dilla	17	716	2.16	1.00	20-7	40 31			-			-	1	
3	2	3.12		6:1:34	57	1.8	2,01	8	178*	-			-do-			9,18	100	
			Tark.l	6:LL	13	916	2.16	1,00	118	40 31								
/2L125/37 Plot	4		Tark o	11:00P	8	23	Not ope	operating properly	roperly	40 31			None			.23	None	
=	24	1.97	-	-do-	600	.23		-do-		1			-do-			23	40	
= = = = = = = = = = = = = = = = = = = =	×	i		-do-	600	,23		-d2-					-00-			.23	-do-	
3 3	4		Tark.1	10:550	505	35	22.0	3%	2 2	10 31			-do-			N	100	
3			Tark 2	11.000	8	23												
			Tark.1	10:55P	605	2	2.04	3	-84	LO 31								
3	Z	3.12		11,15P	585	13	2.16	1.00	18	+		-	-do-			13	-do-	
3	-			10.55P	605	21	2.04	%	81		-	-						
	-		1								-						-	
																	-	



UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE DIVISION OF RESEARCH

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

SHEET_ MONTH_

Мау

, 19.37 SHEETS

Column Same	Watenshad				RAINFALE	T.			TEMPERATURE (degrees F)			Run-off					
	Number	Gare No.	Began	Durstlon	Amount		MANUEL NOMINA	77			Ended (bour)	Amount (luches)	Maxim		RAINFAIL MINUS RUN-OFF (luches)	SELY LOSS (tons per acre)	CONDITION OF WATERSHED
Prof. V. 3.72		Care No.	(hour)	(minutes)	(luches)	8 minutes (inches per hour)	15 minutes (inches pru bour)	30 minutes (Inches per bour)			(mon)	(menas)	Cu. ft. sec.	Time			
1.97	(2)		(8)	(6)	(7)	(8)	(9)	(10)	= 1	(12)	(13)	(14)	(15)	(10)	(17)	(18)	(19)
1.57	Plot V	ark,2	15,262	- 40g	.26	21.	.12	.10	-			none			0.26	Bono	
7 3.55	∀ ≆		3 3	200	0 70	27.	27.	10				3 :			020	3	
	>	-	121151	170	28	2	.12	.12							ALV		
Table 2012 170 22 21 12 12 12 12 12 1	~	N 1	12:15P	180	-21	-21	.16	11.				3			2	3	
2 3.12	3	N	12:264	204	-26	212	250	.10				and the same of th					
2 1.10 1.1	3	,	12:154	170	2 (2	2 12	7	115				=			2	3	
Hot V 3.25 Tark 2 5186 92 2.6 .60 .40 .26 60 5026	4	- 0	12:151	170	131	ţ:	.12	.12							Ē		
Hote V 3.55		1															
No. 1.97	Plot V 3	Tark,2	21384	8,8	.26	8	04.	.26				3			-26	3 3	
A A A A A A A A A A	*	3, :	3 :	3 %	26	3 6	o tto	200	-	1		3			000	3	· management
1 3.25	>	Tark 1	Tach b	8 %	22.5	36	36	22			į				96.0		
Tark, 1 5,369 92 .26 .36 .36 .36 .25 .26 .36 .	# ¥ 3,25		5,00%	Š	23	•36	28	8.				=	-		.27	3	
2 3.12 Plant 2 5:00	3 3	Tark.2	51381	88	200	2.5	040	26								1	
Tark, 5129 100 .21 .36 .36 .21 .60 50 .11 .11 .15 .12 .10 .12 .10 .1	Z	Plum 2	21001	5	12:	•36	200	8				=			120	3	
Plot V 3.25 Terk.2 Liller 38 .88 5.04 2.76 1.52 71 Lil Lille 5157 .103 5.44 Li50 0.69 1.105 Octo 2.1/2" high 1.77 1.97 1.98 1.105 0.69 1.105 Octo 2.1/2" high 1.77 1.97 1.97 1.97 1.97 1.97 1.97 1.97	-4	Tark, 1	5:25P	100	·21	-36	076	-24							1	-	Crown
	A tota	Tork.2	י אבגליון	38	.88	5.04	2.76	1.52	-	वर्गारा	5157	193	5.14	7:50	0.69		Oats 2-1/2" high. Clover up.
Tark.1 1:314 1:134 1:14 1:15 1:15 1:15 1:15 1:15 1:15 1:1	3 3	===	= =	38	88.	5,5	0 70	1000		41/15	4353	200	. TO	C 11877	000		Flowed Harrowell Ground motes
	-	Tark. 1	d7227	E 6	• 00	6.00	0,6.4	20,50	-	THE PARTY	74.67	40.4		1			(Ground mot
	" Y Z.25	Flum 2	1,1302	00	1.02	2000	3.12	1.68		4:47	5123	*1%	8.00	P117	82		Onts 2-1/2" high. Clover up.
	=	Tark.1	47637	E.		6.00	0,1,4	2,52		: :							
Prot V 3.25 Tark.2 21,0P 38 .79 3.60 2.8L 1.52 80 57 Refer to 5/20/37 Sheet L of B 1.57 N 1.5	2 3	Plum 2	416 st	£ 6	1.02	5.00	3,12	2.52	-	87:17	6100	.083	1,05	453	116	.236	
Tark 2-140P 25 3-60 2-04 1-52 86 57 Refer to 5/20/37 Sheet 4 of 8 79 3-60 2-04 1-52 80 57 Refer to 5/20/37 Sheet 4 of 8 79 3-60 2-04 1-52 80 57 Refer to 5/20/37 Sheet 4 of 8 79 3-60 1-149 80 57 Refer to 5/20/37 Sheet 4 of 8 79 3-25 Plum 2 2-152P 40 4-59 2-04 1-52 80 57 Refer to 5/20/37 Sheet 4 of 8 79 3-60 2-04 1-52 80 57 Refer to 5/20/37 Sheet 4 of 8 70 70 70 70 70 70 70		3	3		70	2 2	20.00	1.50		5		2	2	D .			
x 1.97 Tark.1 2:40p 25 3.60 2.81 1.52 88 57 Pefer to 5/20/37 Sheet 4 of 8 x 3.25 Plum 2 2:755 40 .59 2.04 1.92 1.14 88 57 Refer to 5/20/37 Sheet 4 of 8 Tark.2 2:40p 38 .79 3.60 2.81 1.92 88 57 Tark.3 2:40p 25 3.61 2.80 1.48 88 57 Tark.1 2:40p 25 3.81 2.80 1.48 88 57 Tark.1 2:40p 25 3.91 2.80 1.48 88 57 Tark.2 2:355 40 .59 2.04 1.92 1.14 88 57 Tark.1 2:40p 25 3.91 2.80 1.48 88 57 Tark.3 2:40p 25 3.91 2.80 1.48 88 57	M 2017	H Ted	1 1		. 79	3.60	2,84	1.52		Refer		E2 6	30 4	CD T			
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PROJECT Clarinda, Iowa

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UNITED STATES, DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE DIVISION OF RESEARCH

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

MONTH

tay & June
4 or 8

, 1937

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			rm	126/37 st				*16	20	200	ik	78	11:12A	Tark.2	3.25	Plot V	5/25/37
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MARINUM RATE RAINFALL MINUS SILT LOSS (total see nate)		K	MARI	-	-	3	(disgrace) in a		ATHUM BARNATE	4					N. A. C.		Date
				Run-orp	-		TENPLHATINE				Rainza				Christ 15	WA.	0 000



Clarinde, Iowa

UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE DIVISION OF RESEARCH

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

SHEET 5 OF Month June & July

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SHEETS , 19.37

WATERSHED	WATERIAD W					BAINDALL										_		
Date			-					MARINE MUNICAL			\rightarrow	-	-	-	Махинги Вате		RAINTAIL MINUS	Sitt Loas (tons per sers)
Nimber	Area (acres)		Onge No. B	Beenn Dr (bour) (n.	Duration (numutes)	Amount (inches)	5 minutes (inches per hour)	15 minutes (faches per bour)	30 minutes (inches per hour)	Maatmum Miniquio	um (hour)	(hour)) (laches)		Cu. It sac	Time	(mcom)	
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6/15&16/37 Piot	.4		N	8:30F	235	1.13	2,00	1.1	1.18			OP 112				12:224	.98	.031
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3 3	2 3.12		ا دیا مسو		317	1.36	2,40	1,52	1,12	53 16			3				1.36	3
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UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE

DIVISION OF RESEARCH

PROJECT 7/11/37 7/21/37 7/18/37 7/29/37 DATE Plot Plot Plot Plot PRINTING PETRICE 4 12745 Clarinda, Iowa 3 WATERSHED ¥.< 3.25 22.2 3.25 1.97 3.25 1.93 1.53 3.12 (acree) 3 Tark.1 7:55P Plum 2 7:55P Tark.2 7:55P Tark.1 7:55P Plum 2 7:55P Tark.1 7:55P Tark.1 6:55A
Plum 2 6:10A
Tark.2 6:02A
Tark.1 6:55A
Plum 2 6:10A
Plum 2 6:10A Tark.2 Plus ? Tark, Plum 2 Plum 2 Tark.l Tark.2 Tark.2 Tark.2 Tark,1 Tark. 1 Tark.l Pluz 2 Oage No. 3 3 6150r 6150r 6150r 6150r 61591 , 61LTP 1130A 1137A 1137A 1130A 1130A 11374 71521 6,024 Begar (hour) 3 001 001 311 001 110 011 811 (minutes) 202333333 RECORD OF SINGLE STORMS AND THEIR RUN-OFFS 56.52.52 1.64 1.64 1.63 1.49 1.49 Athount (luches) *3B इंडेड्डिइ NAN CONCESS RAINFALL 8 minutes inches per hour) 1.56 2,888 MAXIMUM INTENSITY 18 minutes (Inches per boar) ESEESEE EE 1.68 22222222 3 (inches per hour tes 1.78 1.78 1.78 1.78 1.78 1.78 .76 .84 .76 .86 .86 .86 .86 Adolless F.) 2999 333 93 93 92 92 828 3 23 8 86 888 2 61 200 5 8 888 59 59 259 8 \$ 333 7:15P 7:05P 7:13P 8120P 8125P (hour) (1.2)9125P 7135P 7112P 7127P 9x28P (hour) 0N VARIOUS WATERSHEDS none 9000 t RUN-OFF .062 -000 005 (inches) 620 200° 200° 200° 011 BUDE BODE none TODA 0.255 7:26P .10 7:08 .08 7:15 Cu It. see (1.6) *15 B MAXIMUM RATE 8153 40016 Time (16) 110 1.50 1.64 1116 1.63 5 20 888 20 नेतनेत £1-(17) (long per sare) Too" Brit" none " none trace DODE trace trace £003 = none BODE £40. (IH. •007 SHEET MONTH Oats out. Clover dead. Ground Corn 6' highs Ground wot. Corn 6' highs Ground moist. Mo hydrograph so hydrograph. Corn maturing. Oats out. Ground moist. OM Oats out. No hydrograph Cats cut. Ground hydrograph. Oats cut. hydrograph. Oats cut. 0 July CONSISSION OF WATERSHED OF 100 SHEETS



PROJECT Clarinds, Iowa

UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE DIVISION OF RESEARCH

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

SHEET___ 7 ___OF_

Month August, September

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Clarinda, Iowa

UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE

DIVISION OF RESEARCH

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

10/8/37 10/16/37 10/17/37 Flot V B1V(I Plat V Plot V WATERINED 3.25 1.97 1.97 1.97 3,12 3,12 92.20 VL32 Tark,111,30P Plum 211,30P Tark,311,37P Tark,111,30P Plum 211,30P Tark,111,30P Tark.1 6:30p
Tark.1 6:40p
Tark.2 6:40p
Tark.1 6:50p
Plum 2 6:40p
Tark.1 6:30p -do--do--do-Park-1 5:155 Plum 2 5:150 Tark-2 5:507 Tark-1 5:159 Tark. 1 4:45P Tark. 1 4:45P Tark.2 4:45P mrk.2 4:451 Gage No. Tark, Plum Tark, Tork 211:378 Tark of 6:110P Tark.2 5:50P 40° 50° 5 45th:5 Began (bour) 170 170 155 170 155 170 (inches) RAINVALL 1.20 MAXIMUM INTRIBUTE 87,887,78 15 15 20 20 16 20 20 20 20 20 Masamura 75 555 2 222 888 45 7 は江江 8 8 5 Minkaun 5 555 2000 200 6 35 35 3333 36 8 39 35 (hour) (2.3) (13) (bour) -00--do--0.0 m None -do--do-1001 100 -do--0.0--do-None -dodo-(spectron) вао-иля (<u>1</u> Cu ft suc. (1.6) Махиси Вати Thme (16) RAINFALL MERTS RUN-OFF (lackes) 10°0 10°0 (E3) 1000 21 8 188 .26 26 3 3 27 25 .21 ŝ Stra Tuber (Sons per acre -ob-Hong dc -do-Hors. -20do--0.Ddo--do-90 do-CONSTRUCT OF WASHINGTO

Month October & November , 1937

SHEET

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RUBARS



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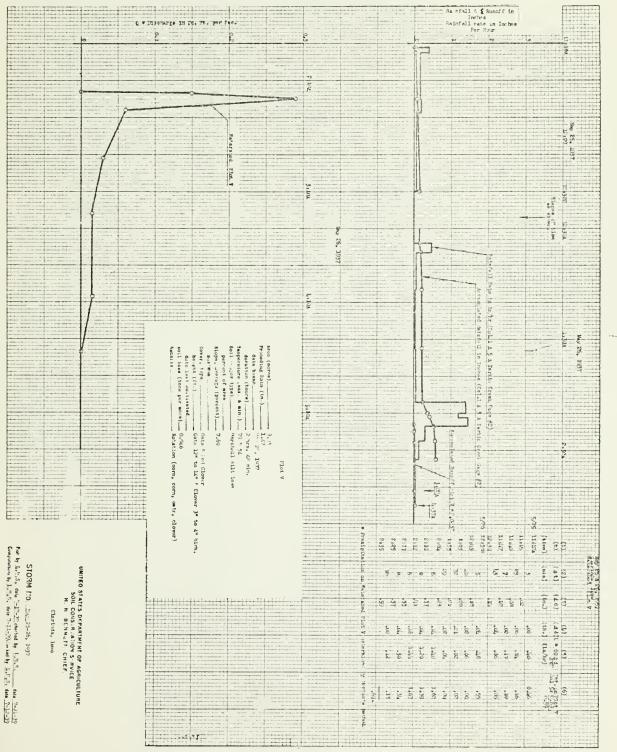
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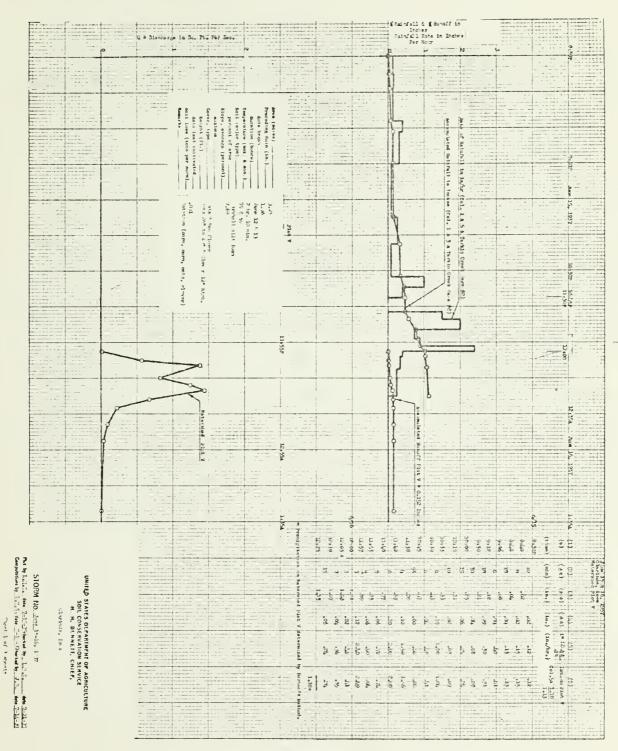
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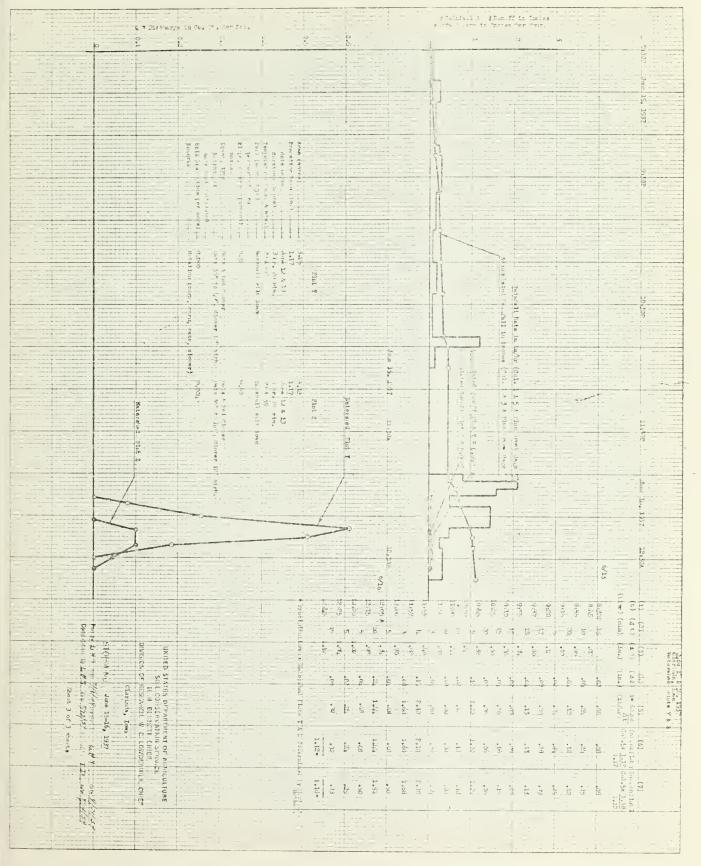






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Month March & April

, 19_38

RECORD OF SINGLE STORMS AND THEIR RUN OFFS ON VARIOUS WATERSHEDS

Null bar (arre) Gage Nt. Regan (number (nuclear (nuclear number 1.37 number 1.	at 6 minutes (Incluse per hou (B)	MALIEVE INTERSTRE 15 minutes (15 dinates) (inches per hour) (16) (16) (16) (16) (170 (16) (170 (170 (170 (170 (170 (170 (170 (170	30 minutes inches per hour: (10)	72 S3 31	TILL HEBD	Hegan P (hour) (12)	(hour)	Amount (inches)	Maximore Rate Cu. ft sec. Time (16) (16)		(IN US	8 2	CONDITION OF WAYERSHED
V 3.65 Tark.2 2:30A 810 X 1.97 " " 810		15 minutes (1) (Inshes per hour) (1 (9) e 16	30 minutes inches per hour: (10: 12: 12:	C d				(Inches)	(1.6)		(4.0000)		
(a) (b) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d		(b) 16	12					(14)	(16)	(16)	10.00		The second secon
V 3.25 Tark.2 2:30A 810 H 1.97 " 810 X 1.97 " 810		*16	21.					**		1	(14)	(18)	(19)
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Tark.1 7:00P 405		.12	.10										
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W 1.97 " 95		-do-		-				-do-			28	100	
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7 1.97 " 150 -32	C LOOK DOG	Sarmado	property	36 28	-	-		POTON			75 K	None	
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I 3.25 Plum 2 4.15A 150		1 1	3	36 28				-de-			-32	do	
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RECORD OF SINGLE STORMS AND THEIR KUN-OFFS ON VARIOUS WATERSHEDS

SHEET 2 Monni April & May OF 9 , 19 38

WATERHED					RAINFALI	-			THUTTHATTHE	ATURE SF)		1	RUN-OFF					
Date Number Area (acres)	Ongo	No. Repar (hour)		Duration /	Amount (inches)	M sminutes M	MAXIMON THERMSON	30 mlautes	Maximum	Migination	Becan (hour)	Ended (hour)	Amount (luched)	Maxim Cu. it see	MARIMUM RATE	RALFFALL MINUS RUN-OFF (Inches)	Sity Loss (tons per acre	Compation of Watershied
(1) (2) (3)	- 2	(6		(6)	(3)		(99)	(10)		3	(12)	(13)	(14:	(15)	(10)	(17)	(18)	(61)
V 3	E B		15+	8		Clock not		operating preer	19	19			none			0.63	none.	
× =		3	200	5 6	68		0 0		61	F (3			868	3	
	Tark.1			501	.72	2.01	1.40	-78	61	0			3			70	8	
-			5;15r 200	18:	8	2	ego above		1									
n I 3.12	2 Flug 2		2100r 51	50	.70	1.15	1.16	2	62	19			3			.70	3	
1.			-	- J	.72	2.04	1.40	.78										
5/364/38 Mot V 3,2	Tark.2	10:			10,01	.80		.32	80	-		to 5/1/2	39 etorn					Ground moist
x 1.97		-		130	1.01	000	01.	• 32	80	55	Toren	KC #1/6 00	PLODE A	MOTOR		1.01	3	ntonin morar
3 3		<u>ب</u> ز		-	1		01.	- 32				2	1					
3 Joe's				+		-60 -60	1 1	-32	00	45	neter	A 16 03	THE PERSON	BOTEC				around motae
2 3.12				430	1.01			BOVE	80	15			none			1.01	3	
	LATK. L		14 300 101	H	T-ut-	00	otto	36.										
5/14 38 Plat V 3.25	Te	l h	72	W &	30,00	84	1,6	210	88	55	12:32P	मिष्ठमे द्य	5100	03	12:35:4	38.58	900	Oats 1" high-ground moist.
	Terk		8.10A 30	34.03	3,8	960 8th	.60 H	-54	63	5			none				none	
" X -3.25	'	0 10		25.55	98	1 5	operating	pro	63	45	12:351:1	12,582	Troo-	-03	12:37:	-98	-003	Unts 1" & sweet clover 3/11" high
		-		Si	16.	.60	.60	-54	1									
n Z 3.12	2 Plum 2 Tark.1	10	8:35A 23	33	99.	.60	See abave	*54	63	5			errore			-98	none	
4	n in	-		F .	33	7, 75	1.29	20	83		0105A	2:384	20019	5	2.03A	86	200	Oats 5" & sweet clover 15" high
3 3			3 3	28	8	15.	1.28	2 22	38	0.0	1	,	.013			22	-003	Me hydrograph. Oats 5" bigh
>	13			50	63	1.32	1.08	7.1	R	411			Tone			•00	FOUR	
" ¥ 3.25			B: 381 31	75	Si	13	1.01	•72	- 62	40	-		7		İ	-65	3	
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" 2 3,12				Fo.	Š	1.20	1.04	.72	83	10.			3			ŝ	3	
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RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

Монтн **мау** , 19 <u>3</u>8 Sheet <u>3</u> ог <u>9</u> sheets

1 1	= =	2 2	3	= =	5/31/38 1 lot	3	Z	2	3	= 3	2		5/19/38 Plot	=	3	=	2 1	: =		=	5/17/38 Plot		1	2 3	3	2	2	5/13/38 Plot	(2)	Zunices	DATE	W	PROJECT GAR
 	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	¥ 3.25	16°T Y	W 1.97	Y 3.25		3.12		7,67	2	X 1.97	1.97	¥ 3,25		Z 3.12		Y 3.25			W 1.97			2 3.12		Y 3.25			W 3.25		(acres)	À.	WATERMED	CLEATINGS POLICE POLICES
Tark-1	Tark.l	Plum 2	Tark.	= =	Tark_2	Tark.1	Plum 2	Tark.	Tark 2	Tark.1	2	3	Tark,2	Tark. 112:55A	Plum 2	Tark, 1,12:55A	Plum 2	Tark.112:55A	=	=	Terk 2	Tark.1	Plum 2	Tark.2	Plum 2	Terk.l	3	P. ALBI		Calle No	,		
5:35A		5:39A	5:35A	= =	5:45A				1.064	1:054	3	=	1:06)	12:55A	212:55A	12:554	Plum 212:55A	12:55A			1:00A	4:54	425	4.55.5	4:Sup	418:4	3	4:521	(8)	(hour)	Heenn		
95	38	907	S 8	8 8	90	195	200	195	180	195	189	189	189	320	320	320	215	320	315	315	315	71	87	76	8	71	137	2/2	(6)	(minutes)	Duration		
-31	321	27	\$ £	25	25	.32	30	32	200	32	.32	.32	• 32	.57	1,8	57	3 6	.57	52	Š	R	.22	23	35	23	22	27	120	(2)	(luches)	A moount	RAINFALL	
66	260	88	600	.60	.60	.36	-24	.36	2.22	200	.36	.36	• 36	1.32	.60	1.20	200	1.32	.60	8	8	.%	1,08	2.5	1.08	8	1.32	1.70	(E)	(inches per hour)	-	VE.	
8.4	\$	0.0	8		1	.40	-21	Го	3%	2 10	.36	.36	.36	.78	12	78	5 10	. 78	S	12	Š	.64	.61	600	•64	.64	.68	69	(8)	(luches par hour)	SAKINUM INTENSITY		
*34	3 1/2	222	• 3L	•26	.26	•32	2	32	35.	200	-32	32	•32	077	-24	100	2.6	-40	e30	30	30	**	.38	74.	85.	92.	15	000	(10)	(Inches per hour) (Inches per hour	17Y	TO A CAMP AND THE PARTY OF THE	
17		79		79	Ц		76		C	1	-	76			75		47	1	-	75	-	_	65		65	1		205	(11)	-	Maximum Minimum	Truperature (degrees F)	
5	5	60	2	60	60		60		18	5	60	60	6	+	8		8		8	25.	8		37	-	37		37	37				F)	
									1					-															(12)		Began E		
		-	1	1	N		ı		را		1		z		1		1		1	1	2		1		1		1	I Z	(13)		Ended		
1 6		do	-00-	-00-	None		-do-		1		do	0-	None		do		00-		-cp	do	ear o		do		do		do	None	(i.e.)	_	Amount	RUN-UFF	
																													(15)	Cu. ft. sec.	MARINUM RATE		
																													(19)	Time			
170)	.27	625	255	-25		30		•)0	20	•32	.32	•32		816		48		83	55	ß		.23		.23		.27	27	(17)		HAINFALL MINUS HUN-OFF (inches)		
00		-de-	-00-	do	None		J. 00-		100		J.	-do-	None		-do-		001	:	do	-do-	None		do		-do-		100	NODE .	(18:		Snr Loss (tops per acre)		SH
																													(81)		CONDITION OF WATERSHED		SHEET 2 OF 7 SHEET



RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

MONTH May & June
SHEET 4 OF 9

, 19.38

	WATERSHED				RAINFALI	4			(degrees F)	M F)			RUN-017					
Mart Colon Colon Colon Martin					7	THERET MUMITAL	TY			5	E		MAXINO	1	RUN-OFF	(tons per nore)	CONDITION OF WATERSHIED	
1975 1975		Gage No.	Began (hour)	Duration (minutes)	Amount (inchos)	5 minutes (Inches per bour)	15 minutes (inches per bour)	30 minutes (inches per hour)		Minimum	(bour)	(hour)	(inches)	Cu ft. sec.	1	(Constant		
X 3,25		(4)	(6)	(6)	(7)	(8)	(9)	(10)	(1	-	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
	V	Tary 2		1,0	.60	1.92	.80	•60	57	8			None			0.60	None	
Y 3.25 Tark. 12.95 140 251 120 251 120 251 120 251 120 251 120 251 120 251 120 251 120 251 120 251 120 251 120 251 120 251 120 251 250 250 251 250 251 250 251 250 251 250 251 250 251 250 251 250 251 250 251 250 251 251 250 251	4 =4	10-	100	- DTT	3.8	1.8%	800	50.00	707	3.8			100			60	A do	
2 3.42	>	Tark.1			8.8	1.32	66	62		. (
Phot V 3.25	×	Plum 2	12;32P	1	577	2.16	.80	6.85	-79	8			-do-			-57	7.00	
	3	Tark.1			8	1.32	.68	R	-									
Plat V 3.25	2 3	Plum 2			-57	2.16	-80	.85	75	8			-do-			-57	-do-	
Plat V 3.25		Tark.1			8	1.32	.68	000										
W 1.97	¥ .	Tark.2	8:05A	105	.21	.96	Lio	210	88	1/21			Nono			23	None	
" X 1.97	1	1001	100-	105	,21	•96	·10	otto	8	7			100-			2	100	
Y 3.25	×	-do-	B-054	105	.16.	3.8	0.40	110	g	- 44			400				100	
The First Brock 105 21 .96 .10	×	Plum 2	V00:8	110	.18	8	.Lo	.22	80	72			doi			.18	100	And were found to propose the following the field of the
Z 3.12 Pinne 2 8100A 115 .18 .96 .10 .22 80 54 .40 .40 .40 .40 .40 .40 .40 .40 .40 .4	+	Terk.2	8:05A	105	.21	96	040	040										
Tark.1 6:05h 115 .16 .7c .2h .1h .1h	7	Plum 2	8.00A	110	.18	87	010	222	80	ξū			-do-			.16	100	
V 3.25 Tark. 1.52A 78 1.12 2.10 1.35 .71 77 61 More 1.12 .12 .13 .71 .71 .71 .71 .72 .12 .73	1	Tark.1		115	.16	.72	.21	, 114										
	4	Tark.		78	· ·	2.1.0	1.36	-74	77	61			None			-l/2	None	
X 1.91	*	-d 0-	1	78	तंत	2.40	1,36	-74	77	61			001			\$ \$\disp\{\text{o}}\$	1 1 2	
Y 3.25 Plum 2 5:23A 67 .34 1.56 1.04 .64 77 61 .40 .	×	Tark.1		78	- 1 6	2.76	1.56	08.		C			6				1	
Tark 1 152A 78 142 2.160 1.26 80 77 61 40- 31 4 4 4 4 4 4	K	Plum 2	5:23A	87	÷34	1.56	1.04	10	77	61			do-			•34	do-	
Z 3.12 Plum 2 5:23A 67 .34 1.56 1.04 .64 77 61 -do- 20 - 21 4	= =	Tark,c	V25:1	78	15	2.76	1.5%	- 08°										
Tark	2	Plum 2	5,23A	87	• 34	1.56	To.i	.62	π	61_			-do-			• 34	do-	
Y 3.25 Park-211:00P 285 .74 .72 .60 .40 77 .55 More .74 .72 .60 .40 77 .55 .40 .74 .74 .72 .60 .40 .77 .55 .40 .74 .74 .72 .40 .72 .40 .72 .40 .72 .40 .71 .71 .72 .40 .71 .72 .40 .71 .72 .40 .71 .72 .40 .72	1	Tark.	4:52A	78	dip	07.5	1.50	g										
W 1.97	٧	Tark	11:00P	285	•74	5	.60	010	77	55			None			12/2	None	
A 1.37	< ≒	100		280	11.	36	3 8	240	77	55			1 6			7/2	do	
" X 3.25 Plum 211:20P 210	Þ	-020-	100	-	3	3	300	210	- 11	11						17.		
Tark_221:00P 285 .74 .72 .60 .40 Tark_111:15P 210 .72 .60 .60 .24 Plum 21:20P 210 .72 .60 .60 .24 Tark_111:15P 210 .72 .72 .60 .60 .24 Tark_111:15P 210 .72 .72 .60 .60 .24 Tark_111:15P 210 .72 .72 .60 .60 .24 Tark_111:15P 210 .72 .72 .60 .60 .24 Tark_111:15P 210 .72 .72 .72 .72 .72 .72 .72 .72 .72 .72	×	Flum 2	11:20p		.7.	J.B	1.8	040	77	55			-do-			.71	1001	
" 2 3.12 Prim 21:15P 21:0 .72 .60 .60 .21	-	Tark.	11:00P	1	174	.72	.60	10										
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PROJECT

Clarinda, Iona

UNITED STATES DEPARTMENT OF AGRICULTURE

SOIL CONSERVATION SERVICE DIVISION OF RESEARCH

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

MONTH June & July 19.38

SHEET

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SHEETS

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

SHEET_ MONTH. 0 August OF. 9 SHEETS , 19_38

WATERSHED				RAINFALL	AVIT			Truce	Ydegrees F)			RUN-OFF					
						MAXINUM INTENSIT	NET			Baran	Ended	Junomy	Maxo	MAXIMUM RATE	RAINFALL MINUS HUN-OFF (inches)	Sity Loss (tons per acre)	CONDITION OF WATERSHED
Number Area (acres)	Onge No.	Regan (lwur)	Duration (munites)	Amount (inches)	5 minutes (inches per hour)	15 minutes (inches per hour)	30 minutes (laches per hour	Maximum	Мівшашт	(hour)	(hour)	(inches)	Cu ft. sec.	Time			
(2) (3)	(4)	(5)		(2)	(£)		(Jo)	_	-	(12)	(E1)	(11)	(15)	(16)	(17)	(81)	(41)
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3	Tark.]	1 2:25A		18.	1.44	1.28	-L18	2			1				63		
" Z 3.12	Plum 2			64	1.08	1.28	1.8	3	0			100			000	GO	
Plot V 3.25	Tark.2	7:20P			1.44	1.24	8	8	68			None			Ė	None	
	-do-	-		亡	1.11	1.24	8	R	68			-00-			上	100	
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" W 1.97	-0.5-	-		2.21	6,00	3,28	1.98	85	8	3:310	3154P	1001			2,21	thr.	Oat stubble. Ground moist.
-	-0°-			2,21	6.00	3,28	1.98	85	8	1 .		None		-	2,21	None	
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PROJECT___

Clarinda, lows

UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE

SOIL CONSERVATION SERVICE

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

SHEET_

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SHEETS

Month August & Soptember , 19 38

9/10::1/38 9/5/38 W. a. Gorganuger Painting Office 8 -12 Mg 9/10/38 8/28/38 Date Plot V W W Plet V A PUE! Tot. 24 2 WATERSHED 3.25 1.97 3.25 1.93 3.12 3.25 1.97 1.97 Area (acres 3 | 1.23. | 222 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | 1.23. | 232 | Tark, 1 5:38P Phim 2 5:45P Tark.2 5:45P Tark.1 5:38P Plum 2 Park.1 5:38P Tark.1 9:45A
Plum 2 9:47A
Tark.2 9:46A
Tark.1 9:45A
Plum 2 9:47A
Tark.1 9:45A Tark 2 Tark.1 9:25P Plum 2 9:20P Tark.2 9:30P Tark . 2 5:45P Ongo No Tark .2 9:30p -do-Tark 2 -do--do-1:18 P 217 9:481 -do--do-(hour) -00-107 107 150 150 150 150 150 Duration (minutes) 8 105 127 (luches) 1.80 1.80 1.80 1.80 1.32 1.32 F&E&&E 88 8 6664356434 MAXIMUM INTENSITY 8,8,8,8,4,8,4,8,4,8 (inches per bot 222238277 x xxx3x3x3x 26.26 8 888 18 81 81 81 80 8 888 96 8 00 888 (degrees F) Migin 67 58 58 58 65 555 67 67 8 8 888 58 3:57P 5:35P (hour) (12) (hour) 0203 None None -do--do--do-.001 None 100 100--do--do-101 -00-100 Amouns (inches) Cu ft see. 0.10 4:04P (1/4) MAXIMUM RATS Time 10 RAINTALL MINUS KUN-OFF (luches) 888 1.17 1.18 1.18 _96 96 2000 :51 29 29 • 50 .50 .51 esori aus) 0.001 010 100.0 -do--do-Mono -do-100-Trace (14) -do--do--do-8 -do--do -db-No hydrograph. Sweet Clever 26"hist Cat_stubble, Ground moist, No hydrograph. Sweet Clover 26th ich CONDITION OF WATERSHED



PROJECT

Clarinda. Iowa

UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE

DIVISION OF RESEARCH

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

Month September & October, 1938

SHEET

SHEETS

9/13/38 9/12/38 10/1/38 9/13/38 DATE Plet V Plot WATERSTED 1.97 3,12 3.25 3,25 1.97 1.97 3,12 1.97 A FRM Purk. 1 4:382 Plum 2 4:389 Tark. 2 4:389 Plum 2 4:389 Plum 2 4:389 Tark.1 7:50A Plum 2 7:15A Tark.2 7:454 -do--do--do--Tark.1 6:1d1 Plum 2 6:141P Tark.2 6:145P Tark.1 6:1d0P Plum 2 6:141P Tark.1 6:1d0P Tark.1 7:50A Plum 2.7:45A Tark.1 7:50A Plum 2 Terk.2 Tark.1 Plum 2 Tark.2 Turk.2 Turk.1 5:18P Tork .2 5:10F 10-Tark - 1 4:38F 1 Oago N -do-7:451 5:20p 5:10p 5:20p -do-100-Began (hour) 2222222 MRR MRRANN はいいいいいいいい 24254255 1360 स्थार विश्वास्य के स्थ (inches per hour) (inches per hour) 1.08888 1.68 1.68 1.68 1.68 1.68 1.68 MAXIMUM INTENDITY 1107 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1 680 .38 .38 .28 .16 .28 .16 9252525 92525 \$25 £ 25 £ £ £ *********** 62 62 88 888 8 8 8888 8 88 88 88 88 88 TAMERRATERE (degrees F) 3 79 28 8 888 8 68 888 50 50 250 8 8 888 4:52P Refer to 9/13/38 storm
Refer to 9/13/38 storm
Nome Refer to 9/13/38 storm 7:0LP 9:40A 0.0LU None (bour) 5:58P Ended (bour) .036 -do--00none -do--do--do--do--do-100 Amount (inches) RUNOFF (14) helow helow below .255 Cu ft sec. .255 (2.1) MAXIMUM RATE 8:29A 4:56P Time RAINFALL MINUS
RUN-OFF
(Inches) .14 .19 36 •35 上 .19 10 kg kg •35 .27 .35 .35 27 . 35 (87) SET LOSS (tous jer acre 0.002 None -do-0.020 -do--do--do--do--do--dodo--do--do-No hydrograph.
Oat csubble. Ground saturated. Ground moist. Oat stubtle. Sweet Clover 26" -dohigh.



PROJECT

Clarinda, Iowa

UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

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OF

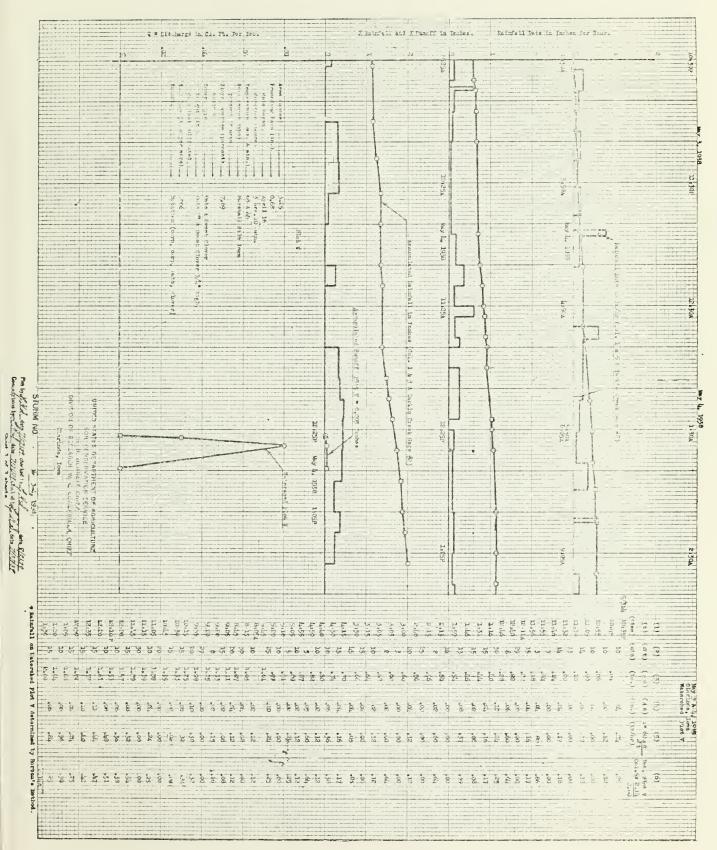
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MONTH November 9

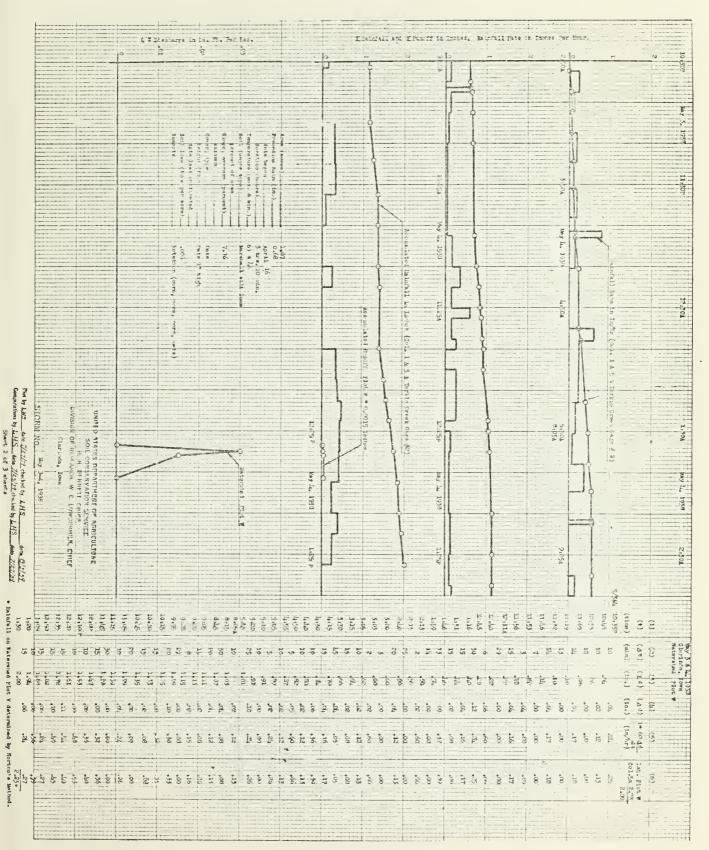
, 19 38 SHEETS

11/243/38 DAYR Plot Number Paintine Offict B 12305 WATERSHED 3.12 3,25 3.25 1.97 1.97 (water) Tark.1 9:02P Plum 2 9:03P Tark.2 9:00P Tark.1 9:02P Plum 2 9:03P Tark.1 9:02P Tark.2 9:00P Gage No. Regan (hour) (6) Amount (inches) RADITALL Sminntee 15 minutes (inches per hour) (inches per hour) MAXIMUM INTENSITY 30 minutes (inches per hour) Markoum Minus TEMPSHATURE (degrees F) 77 77 777 8 8 888 (hour) (12 Ended (hour) (1.3) None None RUN-088 -do-100 (inches) Cu ft sec (15) MAXIMUM RATE Time (16) RAINFALL MINUS RUN-OFF (inches) 2.02 2.08 2.02 (toss per acre None dodo--do-(81)











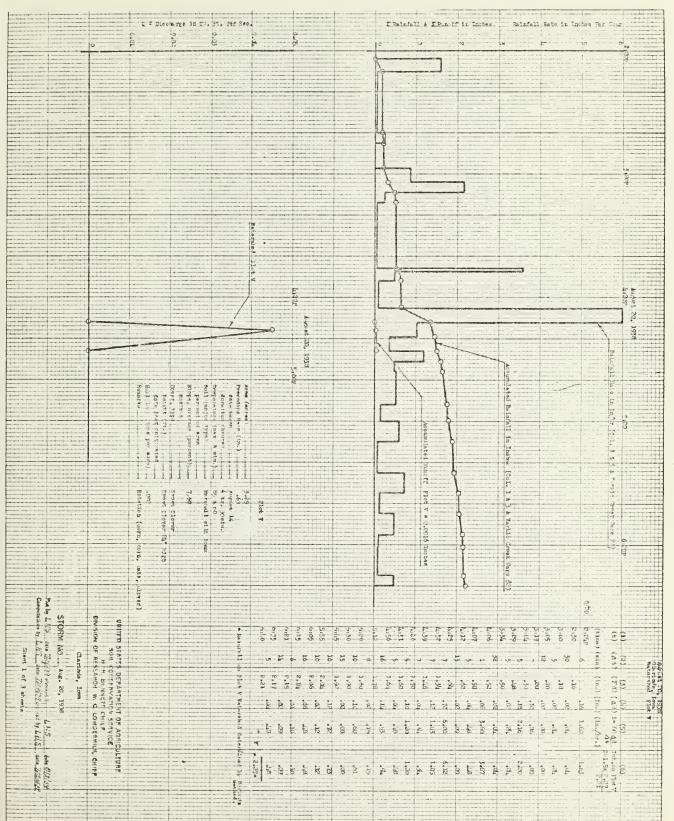
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Sheet 3 of 3 sheets

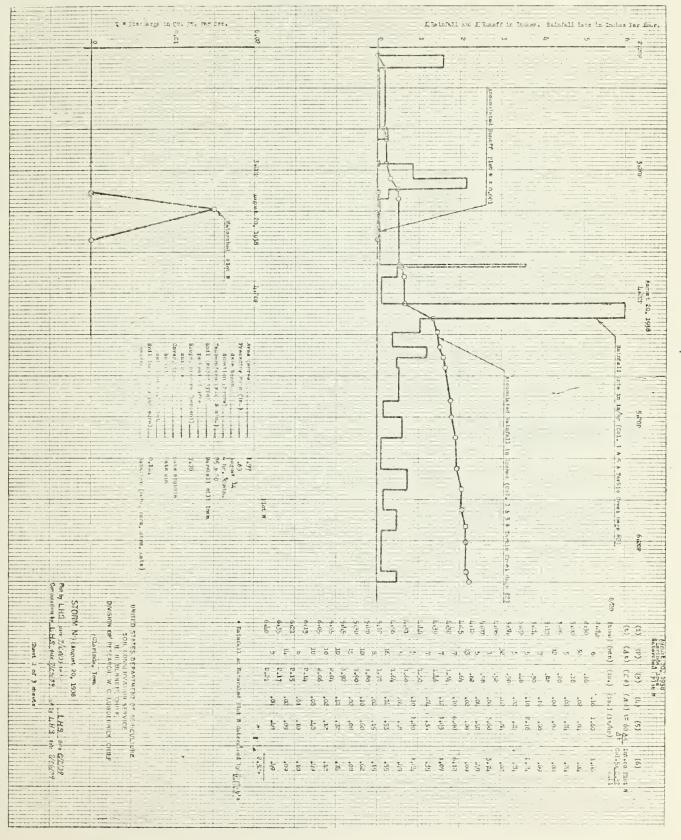


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STORM No. 193 by LHS_skin ZUS/TV is.co. business, LHS_skin ZUS/TV is.co. Short 1 of 1 and	UNITED STATES OFFARTMENT SOIL CONSTITUATION HE BENNELL CO						on Eastern Co	10 -57 -d.	35 19 .w	10 .00 .00 .00 .00 .00 .00 .00 .00 .00 .	35 5 11	15 on on one	(mln) (in.) (in.)	(At) (Ad) 1 =
STORM NO way 6-7, 1938 by LHS_ select 1287.75	UNITED STAPES DEFAUTURENT OF						on Eastern Co	10 -57 -d.	35 19 .w	10 .00 .00 .00 .00 .00 .00 .00 .00 .00 .	35 5 11	15 on on one	(mln) (in.) (in.)	(2) (3) (L) (5
STORM NO by 6-7, 1938 by LHS_sin JASO'N is to the by LHS benezit of 1 short	UNITED STATES DEPARTMENT OF A SOLL CONSERVATION SERV H BENNELL CHIEF DIVISION OF ITS A ADDR. W. O. COMOLE						on Eastern Co	10 57	35 19 .w	10 115 .00	35 5 11	15 on on one	(mln) (in.) (in.)	(2) (3) (L) (5)
STORM NO way 6-7, 1938 by LHS_stir 77.03.79 is way 6-1, 1938 by LHS_stir 77.03 is way 6-1, 1938 by LHS_stir 77.03	UNITED STATES OF PARTITION OF AGS SOLL CONSERVATION SERVICE H H BRANGLE CHILF. DIVISION OF 12'S AGCH MC 0. CONSERTER						Eater Face 1 12ct T	10 -57 -d.	35 19 .w	10 .00 .00 .00 .00 .00 .00 .00 .00 .00 .	35 5 11	15 on on one	(mln) (in.) (in.) (in/ir)	Tatorehod Plat Y (3) (L) (5)
STORM NO by 6-7, 1938 by LHS self- 1280/N in the LHS beaution by LHS date 228/5/N on by LHS	UNITED STATES DEPARTMENT OF AGRICUATION SERVICE HE HE WASHEST CHIEF HE WASHEST CHI						on Eastern CO	10 .57 .00 .00 .00 .00 .00 .00 .00 .00 .00 .0	15 117 .00 .00 .00 .00 .00 .00 .00 .00 .00 .0	10 .00 .00 .00 .00 .00 .00 .00 .00 .00 .	35 5 11	15 on on one	(mln) (in.) (in.) (in/ir)	(2) (3) (L) (5) (24) (26) (Ad) 1 = 60Ad (5)
510AM No. 100 LHS 6. br.LHS_sele. 210B/M in 2/2756 101 breat	UNITED STORES DEPARTMENT OF AGRICULT SOIL CONSERVATION SERVICE H H BINNET OF THE FIRST OF THE FI						on Eastern CO	10 .57 .00 .00 .00 .00 .00 .00 .00 .00 .00 .0	15 117 .00 .00 .00 .00 .00 .00 .00 .00 .00 .0	15 .cc .12	25 21 .(c .03	75 .00 .06 .05 .06 .06 .06	(mln) (in.) (in.) (in/ir)	(2) (3) (4) (5)
STORM NO way 6-7, 1938 5-1-1-1-2-1-2-1-2-1-2-1-2-1-2-1-2-1-2-1-	UNITED STATES OFFARTHERIT OF AGRICULTUS SOLL CONSERVATION SERVICE H H BENNETT CHIEF DIVISION OF HEE AGRICULTUS DIVISION OF HEE AGRICULTUS						on Eastern CO	10 -57 -d.	15 117 .00 .00 .00 .00 .00 .00 .00 .00 .00 .0	15 .cc .12	25 .00 .00 .03	75 .00 .06 .05 .06 .06 .06	(mln) (in.) (in.) (in/ir)	Tabership Plat Y (2) (3) (L) (5) (5) (6) (At) (10) (6)
STORM NO bay 6-7, 1938 5-1-1-1-1-20-27-1	UNITED STATES DEPARTMENT OF ACTICULTURE SOIL CONCRETAGION SERVICE HA BEHARBIT CHIEF DIVISION OF ITS A ACCOUNT OF LOWER FRANKE CHIEF						on Eastern CO	10 .57 .00 .00 .00 .00 .00 .00 .00 .00 .00 .0	15 117 .00 .00 .00 .00 .00 .00 .00 .00 .00 .0	15 .cc .12	25 21 .(c .03	15 or .uc .uc .uc .uc .uc	(mln) (in.) (in.) (in/ir)	(2) (3) (4) (5) (6) (7) (6) (7) (7) (7) (8) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7
STORM NO way 6-7, 1938 by LHS_dir 7129,79 is to LHS dim 8/25 by LHS_dir 7129,79 is to LHS dim 7/285 by LHS_dim 7/285 is to 1 a sheet	UNITED STAPES OFFARTHERN OF AGRICULTURE SOIL CONSERVATION SERVICE H H BANGLI CHILF DIVISION OF 18'S ACCU M OF						on Eastern CO	10 .57 .00 .00 .00 .00 .00 .00 .00 .00 .00 .0	15 117 .00 .00 .00 .00 .00 .00 .00 .00 .00 .0	15 .cc .12	25 21 .(c .03	75 .00 .06 .05 .06 .06 .06	(mln) (in.) (in.) (in/ir)	(2) (3) (4) (5) (6) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7
STORM NO way 6-7, 1938 14 LHS die 7/28/75 5 LHS die 8/259 15 LHS die 7/28/75 5 dby LHS die 7/28/259 15 LHS die 7/28/25 die 7/28/259	UNITED STATES DEPARTMENT OF AGRICULTURE SOLL CONSERVATION SERVICE H H BENNET CHIEF DIVISION OF 125 ARCH W O LONGERMUN CHIEF						on Eastern CO	10 .57 .00 .00 .00 .00 .00 .00 .00 .00 .00 .0	11	10 19 .00 .10 .10 .10 .10 .10 .10 .10 .10 .10	25 21 .(c .03	75 .00 .06 .05 .06 .06 .06	(mln) (in.) (in.) (in/ir)	
\$108M No. 100 to 5-7, 1938 \$108M No. 100 to 5-7, 1938 First V.LHS_4in 728/75 to 100 to 1459 Compassion 1, 1115 data 728/75 to 100 to 1455 data 728/75	UNITED STATES OFFATIVENT OF ACTICULTURE SOIL CONSERVATION SERVICE H H BRANGET CHEF DIVISION OF HE ACTICULTURE						on saturated) let v deterniout by librace's Beth	10 .57 .00 .00 .00 .00 .00 .00 .00 .00 .00 .0	11	15 .cc .12	25 21 .(c .03	75 .00 .06 .05 .06 .06 .06	(mln) (in.) (in.) (in/ir)	(2) (3) (L) (5) 2". (6) (2) (Ad) 1 = 60Ad 60d. Fact V
STORM NO May 6-7, 1938 5-1-1-1-2-1-2-1-2-1-2-1-2-1-2-2-1-2	UNITED STATES OFFARTHER OF AGRICULTURE SOLL CONSERVATION SERVICE H H BENNET CHIEF DIVISION OF HES AGEN W G CONSCRIMIN CHEF						on saturated) let v deterniout by librace's Beth	10 .57 .00 .00 .00 .00 .00 .00 .00 .00 .00 .0	11	10 19 .00 .10 .10 .10 .10 .10 .10 .10 .10 .10	25 21 .(c .03	75 .00 .06 .05 .06 .06 .06	(mln) (in.) (in.) (in/ir)	(2) (3) (La) (5) The Plat V (At) (Ed) (Ad) = 60.44 od) 5; Fat 20
STORM No. 100 to to to to to to to to to to to to to	UNITED STATES DEFARTATION OF ACCOUNTINE SOIL CONSERVATION SERVICE H. BENNET CHILE. DIVISION OF JEST AGEN. M. C. LOWGEBBLIK CHEEP.						on Eastern CO	10 .57 .00 .00 .00 .00 .00 .00 .00 .00 .00 .0	11	10 19 .00 .10 .10 .10 .10 .10 .10 .10 .10 .10	25 21 .(c .03	75 .00 .06 .05 .06 .06 .06	(mln) (in.) (in.) (in/ir)	(2) (3) (4) (5) I'm Flor (6) (6) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7











Reserve 1.96 AdGTP

UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE

Washington, D. C.

H. H. Bennett, Chief

HYDROLOGIC STUDIES

COMPILATION OF

RAINFALL AND RUM-OFF FROM THE WATERSHEDS

OF THE MISSOURI VALLEY LOESS FEGION

CONSERVATION EXPERIMENT STATION

CLARINDA, TOWA

NATION

1939

U. S. DEPT. OF AGRICULTURE NATIONAL AGRICULTURAL BRARY RECEIVED

AUG 1 1972

PROCURENT SERIAL RECORDS

by

L. H. Schoenleber, Assistant Agricultural Engineer Clarinda, Iowa

Prepared under the direction of C. E. Ramser, Chief, Fydrologic Division

Office of Research Hovember, 1040

(See SOS-TP-31 for description of wet raiseds)

This report is #31 suppl.

(See SOS-TP-31 for description of wet raiseds)

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Porm S. C. S. 343

UNITED STATES DEPARTMENT OF AGRICULTURE SCIL CONSERVATION SERVICE DIVISION OF RESEARCH

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

Monra Feb., Mar., April , 1939

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Porm N. C. B.-345

Photecr Clerinia, Iowa

UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE DIVISION OF RESEARCH

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

, 1939

Mostre May, June

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	COMPITION OF WATERERS		(61)															THE REPORT OF THE PARTY OF THE	the factor of th														perole	-op-	-op-		-do-			-ço-						
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	RADINALL MESOS		(12)	0.83	.83	.83		-9€			- 94			34	.34	.34		53			.29		•55	.55	.55		.44			.44			1.74	1.37	2.19		1.64		- 1	2,13						
	BATE	Time	(16)																																10:15P		10:10F			10:21F						
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		(pont)	(13)																			ļ 						-	_	-			10:05P 1:16A	SF 6:00	05: 77		4P 1:10A	-	- 1	3P 1:34A				recalhed in		
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	Natr	Section (incline per bour	(10)	0.43	. AB	•48	68	. 58	.48	.68	.68	.68		68	.68	.68	.70	.58	68	.70	58	270	1,10	1,10	1,10	1.12	,80	1.10	1.12	.80	1.12		2962	2,64	2,61	2,56	2,072	2.64	2.50	2.72	2,56			160000		
	MAXDESH BITANSIT	18 mimutes (fredess per bo	(g)	09.0	9	09	8	96.	.60	1,8	96	7,0%		1,24	1.24	1.24	1,32	1.12	1.24	1,32	1,15	1,32	1.60	1,50	1,60	1.68	1.28	7,60	1.68	1,28	1.68	1	3,88	200	3.83	3,60	4.16	3,88	3,60	4,16	3,60			Erdrograph corrected.		
1		factantm (larber per boar)	(8)	0.84	•64	88	1.92	1.68	\$8₹	1,92	1,68	1,92		2,15	2,16	2.16	2.88	2,16	2.16	2.88	2.16	2.98	1,92	1,92	1,92	2,40	1,58	1,92	2.40	1.68	2,40		5,52	20.0	5,52	4 , 56	5.76	5.52	4.56	5,76	4.56			EVER OF	The state of the s	
PLINEA		Ameant (Inches)	(2)	0,83	833	56	. 95	\$6.	. 83	.95	46	35		•34	.34	34	.36		.34	-36	.29	•36	 .55	.55		.57	• 44	• 55	.57	644	.57		52.52	52.2	-225-		2.25			2,31				Note		
		Culcutes)	(8)	320	220	320	310	315	320	310	315	310		22	22	22	55	17	22	55	17	55	30	30	30	33	40	30	38	40	38		245	245	245	- j			- 1		255					
		(hour)	(2)	11:454	=	=	12:15A	11:404	11:45A	12:154	11:40A	12:15A	-	9:084	E	E	9:10A	9.084	9.03A	9:10A	9:084	9:104	3:537	ε	=	3:52F	3:45P	3:53F	3:52F	3:45P	3,527	1	EOT:			HOT S	9:00	9:10F	9:15P	9:00	9:152					
		Open No.	(4)	201			arkiol	Plum 2.	Tarkio2	Tarkiol	Plum 2:	arkio]		arkio2	=	E	arkdol	Plum 2	arkio2	erkiol	Plum 2	arktol	arkio2	z	=	arktol	Plum 2	Tarkio2	arkiel	Plum 2	artiol		10.7.K.30.2			101 K10 1	Plum 2	arkio 2	Tarkiol	Plum 2	Tarkiol				-	
ABPD	-	(acres)	(9)	E.i.	1.97	1.97		3,25		Fe	3,12			E	1.97	1.07	1	3.25	_	L	3,12	1	3.25 T		1,97		3,25	E	1	3,12	H	T		T	1.97		3,25	-	T	3.12	F		-			
WATERWIFE		Number	2.	lot V		χ		>-		E	2 4	#			:=	ì) >- }			11		0 7	F	×		×	E		2		1		=	H .		7	E	‡	2	E					
WATERMED	Dars	1939	-	May 25 Pl		=			Ε.			E		vane 2. Pr				=	5	r	,	£	Jone 7 F1			E	-	1		= 1			June 529 Pl			1	-	-	E 1	+	E	-				



Form 8, C, 84-845

UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE DIVISION OF RESEARCH

, 1939 -- RHEETB

June

SHEET 3 MONTH RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS PROJECT Clarinds, Icha 9 4, Greenseet ment be contra R-17369

																:																				•								
	CONDITION OF WATERMED		(19)										Corn was 8 inches high.	- op -	-op-		-02-	1	4.0		Ail runoff retained in silt box.					Corn was 14 inches high.	All runoff retained insilt box.				The second of the Second Secon	Corn west 20 Inches highert		Corn was 20 inches bigh-	All simple sotoring in salt hot	on arts it have a real state of the								
	(tone per sore)		(18)	celow)									0.036	.368	010	-	.198		8.50	277		None	-00-	-do-		•052			None		None	034	Lone	4.46			None	-						
	RADVALL MINUS		(17)	data. (See									C.71	9#	.82		19*		c d	300		.63	63	.63		09•			200		1.30	7.24	1,30	200			8.	7444						
	MAXIMUM BATE	Time	(18)	1939											8:33A		8:20A		0.40	0.5020						5:12A						12:184		7.041										
	MAXII	Cu. ft. sec.	(1.6)	June, 10.	-do-	-00-	-	200		2			-		₹555		1,64		cc	35.4				ļ		99			-			2		1 37						-				
Впиот	Amount	(fucbes)	(11)	Refor to J	-	-		-					9:39A 0.163	4 396	A .026	1	4 . 244			1000		900;	-00-	-00-	_	040	1	None	PITON			1	Long	005			Mone						and the second	
	ta put	(pont)	(13	Re		-			-	1			9:39	10:30	3:08A 9:16A		3:32A 11:30A	-	10.01	77.07					-	5:38k					-	2:23	-	12 04						-		-		
		(hour)	64)			-				-			3:43A	3:30A	3:08A	-	3:32A			77.	-			-		5:08A	-					6:482		7.02						-				
TREFERATORE (degrees F)		Maximum Minimum	11)	-	74 51	+		70 57		74 51				74 51	-	-	74 51	-	7.4	-	-			-	+	71 56		97 66	 		-	85 63	83 62	89 63	1		89	-	-		-		-	
		To minutes (finches per hour)	(01)	- 1	.70	İ	+	+	136	78			.62			1		.62	29.		*00				+		7.0	+			1	1	46.00	+	1	36.	-	1.36						_
	MAXINON INTERCET	15 minutes ober per hour) ((to	ŧ	88	38	222	300	070	000	50	.92		96*	96.	95.	1.04	96	96	8.8		5	26°	26*	.92	96	000	25.		96		1		1	t	T	2.24	-	1-						
	Max	S minutes (Inches per boar)	íž.	1,32	1.72	25.5	000	+		1	-	-	-	-	1.56		T	+	000	i	90.50	1,56	Ė		Ť	+	1.30	Ť	1,72		+	+	28.2	+	-	-	+	3,12						
RADITAL		(inches)	6			1							78.	-85	-85	-	.85		98			.63	.63	,63	29	65		a y	.57		1.50	1.50	1.50	1.14			1,13	1,35						
		Duration (minutes)	(9)	70	70	2 6	0, 5	3 5	35	75	75		32	32	323	97	32	333	22	100	40	90	05	00	105	25.0	9 5	0.0	105		345	+	345	377	345	345	377	345						
		(hour)	(9)		= =					3.004	3:00A		8:13A		E				V . T . O	0.334	0:124	4:35A	=	E	4.30A	A:20A	4.30A	4.204	4 30A		6:452) t(6.459	6:43P	6,45P		-				
		Osero No.	(7)	Ter 150 2	E - E		Tarico L	7 11 1	To-1407	C melci	Tarkol		Tarbo 2	=	E	Tarktol,	P1 um 2	Tarkio2	DI MELOT	The abide	ו מבבנו	Tarkio 2	=	=	Terkol	F.11m 2	Tarlial	C mila	Tarkol		Ter Jos			Tourse T	" c - 1 - 2 - 2 - 2	Terkiol	Plum 2	Terbol						
WATERCHED		Arms (actros)	6	3,25	1.97	1.97	i	2000		3 12			1	- 1	1.97		3,25		2 10	1		3,25	1.97	JA97	-	3,25		2 10		i		7501	1.97	3.25	i		3,12							
WATE		Number	£	Plot V	N. E.		5	1	E				Plot V	A.			Þ4	c a	b E			Plot V		× =		-	2	12	2		10t 7		-	Þ	E	E	t-1	E						
	Dave	1939	q.	June 10			=	-		=	=		0		=		F	= =	=	E		13	н	=	F 1		=	=	=		Zung 18			=	=	=	E	E						



Form S. C. N.-345

UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE DIVISION OF RESEARCH

, 19 39

MONTH June & July

- SHELTS Corn 28 inches high. Note all runoff retained in silt box. CONDITION OF WATERSHED 8 Corn 22 inches high. Corn 24 inches high. -do--do--do--do--do-(119) 0.0 SHEET Strr Loes (tons per acre) 0,412 2,344 ,044 .025 .726 .002 ,010 None None None .732 030 400 Mune Mone None .034 (1 K) RADYALL MINTES 1,14 27 1.20 1.42 57 37 67 .57 53 \$ 56 54 35 25 \$25 (17) RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS 10:20P 10:11P 10:26P 10:05P 10:26P 9:13F 9:08P 9:34P 9:14P 9:34P 7:141 MAXINGR BAVE Cu. ft. nor. 125 2.73 (18) 3.26 200 ,10 .93 .77 11:50A 0.379 11:50A 689 12:03M 135 ,013 .132 298 .101 None None .418 Res or (meeto) None None Nono None None Kone 3:40A 11;50A 4:50A 4:02A 7:15A 9:04P 3:40A Enclad (bour) ŝ 10:03P 10:01P 9:59P 17 5:00A 8:58F 8:58P 9:02F 9:06 10:02P 10:02F Posts) (42) Townspatties (Segmen F) 61 62 62 62 62 62 62 29 62 65 55 65 61 61 12 79 20 27 74 74 74 74 74 74 818 81 83 1,74 2 4 4 2 8 8 4 8 8 2 25 25 45 BI Макки вижите 1,08 RAINTALL Amount (toches) 3 1.58 1.52 1,51 .63 .64 .67 Puryton (mlouter) 125 125 125 105 105 65 65 352 357 352 180 180 170 170 185 8:45p 5:004 3:001 9:58P 0 0 0 0 0 S:55P 4:05A 7:15A 8:55P 4:451 3:40A 3:20A 3:40A 2:10A 5:40A Beenin (hour) he 2 nribo2 nrkio1 arkiol 1tm 2 --Pfo2 Tarkfol arkjo2 Tarkiol Firm 2 Farkios Farkiol 1550] 10[2] arkiol O4g9 No. 3 1,23 Clarinda, Iowa 3.25 3.25 3.25 3,12 3.25 3.25 1.97 1.07 3,12 3.12 (k rei) ê WATERMED 2 XXX Plot V. H Flot 7. Flot V 1-1 × 1-3 12 >-104 E June 20 1 Tune 25 July 1 PROJECT 3740



Ports H. C. N.-345

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PROJECT

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July 3

STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE DIVISION OF RESEARCH UNITED

ON VARIOUS WATERSHEDS RUN-OFFS AND THEIR RECORD OF SINGLE STORMS

19 39 SHEETS

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0 July

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MONTH SHEET

51 inches high. 50 inches high. 42 inches high. 151 inches high. 150 inches high. CONDITION OR WATERSHED high. hich. Corn 60 inches high. (19) inches Corn 60 inches 9 moo com Corn Corn Site Loss (tota per nare) Lone 2,502 ,142 .056 .724 .010 .026 13;e lone lone Ê 000 Cone N.nnc RAINTALL MINTS
RUN-OFF
(Inches) 1.03 .37 - 42 (13) 1,15 222 *34 42 41 듹 10:517 11:011 11:057 4:35A 4:33A 4:46A 11:04P 1:324 4:444 Time MATINUM RATE (40) Cu ft pre. 1.24 2 40 000 .03 2 (12) 7/35 RUN-OFF 2:05A 201 2:00A 350 3:00A 053 Amount 5:12: 031 5:00% 157 6:00% 013 Lone Lone 660 600 None None 1.0.0 .019 Conc 10 7 1.5.14 2:194 5:214 Rubal (bour) Refer 10:407 11:105 10:462 4:22A 4:327 Pegan (bour) Minimum 69 99 \$64 64 64 9999 69 69 99 64 250 99 600 39 TEMPFRATIRE ((Ingine F) S 92 23 C3 8258 83 83 83 83 83 922 92 80 00 183 30 mlouter oches per hour) 222882868 8 8 8 8 8 8 8 8 8 Махимин Ілтинит (Inches per hour) 8 8 8 8 8 8 9 9 8 38 38 48 47 57 54 48 48 C C C C C C C C C C C (Incl. per tour) 9 9 9 9 9 9 9 RAINFALL 1.29 1,16 Amount (inches) 1.21 ध स सम्ब 1 Puration (minutes) 92 92 100 110 011 011 011 011 011 24468 75 75 80 75 9 9 9 9 9 9 9 9 10:40 12 104 12 104 12 104 17 104 12 104 12:53 10:52 Began (hour) Tarkol Plum 2 Ferido 2 Farido 1 Flun 2 Perioo 2 Pur do 1 orlio 2 lum 2 erlio 1 lum 2 lum 2 lum 2 lum 2 lum 2 lum 2 Tarijo2 arldo 2 Jum 2 Paride 1 Terkiol Flim 2 Thidol Š. CASO. 3,25 3.13 3,75 3,12 Arms (Artes) WATERSHED >1 XXX 17 T X X 2 == \succ 6.3 >E.M. 124 100 14 Number ME July, 4 נא



Form N. C. N.-345

UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE DIVISION OF RESEARCH

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

, 19.39

Month July & August

SHEETS CONDITION OF WATERIER Corn 96 inches high. (18) 0.4 9 SHEET Strr Loss (tons per acre) lor.e cone .014 .032 None None None None None None î, None None None None None None Lone RAINTALL MINTS
HUNOFF
(inches) 8 8 8 8 8 8 (11) 888 20 29 33 60 22 22 22 22 26 26 26 29 .60 .20 . 333 1:54A 1:56A MAXIMUM RATE Time (16) Cu ft. swe. 50.53 (12) Amount (Inches) RUB-UPS .023 .09 Hene. Hene. Meno Tonc Tene None None None Lone Tone None None None 11) Cono. Mone Lone 2:503 3:12A Ended (hour) 13 1:40A Berno (hour) (13) Transmiras 622 62 62 99 99 99 22 22 7 7 65 65 65 65 80 84 33 89 89 83 8 8 80 63 87 87 87 24 2222 3 8 8 8 8 8 8 8 11.13 11.13 11.20 11.20 11.20 11.20 11.20 11.20 4 4 4 5 4 4 6 4 8 MAXINDS INTERNITY 32 32 44 44 48 44 40 04 52 84 84 45.50 60 RAINFALL Amnant (inches) 52 57 60 57 ត្ត ស្តី ស្តី ស្តី ស្តី ស្តី ស្តី ស្តី Duration (mastes) | mr/c2||1:504 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 1 222 67 67 67 67 67 67 7.r)301 1:084 11un 2 1:064 Tario 2 1:064 7.r)301 1:064 Plum 2 1:064 Tarlio 1 1:254 Flur 2 1:30A Torlio 2 1:358 Terlio 1 1:354 Flur 2 1:30A 3:45P Beend (hour) Transol ? Tawlio 2 1001 Nun 2 Tarliol Oags No. Clerinda, Iowa 3,25 3.15 1.97 3.25 3,25 3.25 1.97 1.37 1.97 1.97 A real 3,12 3,12 3,12 WATORSTED lot v 2 " N N Z # 7 M AMM lot V == July 25 Plot V 2 Number 10 = PROJECT = = =

Form M. C. S.-345

UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE DIVISION OF RESEARCH

, 19 39 SHEETS

Month Auga, Septa, Octa

80 61 0. SHEET ent Loss (tous per acre) None -op--do--do-Tone -do--do-10p= None -co--do--0p--do-Ratheatt, Minus Echnose (fochos) 0.35 35 35 52 52 38 88 88 86 86 998 .36 47 .47 37 37 RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS Tune ê MAXMON BATA Cu ft. see Fene -do--07--0p-1 one None -00-None Amount (Inches) -do--05--do-É Been! Maximum Minimum 69 59 59 59 3 8 8 TREFERENCES (degrees F.) 59 59 38 38 888 84 73 77 77 3 22 77 222 73 73 76 S minutes (S minutes) (and minutes (Inches yer hour) 888488484 322 MAXINGN INVOCATI 0 C 0 C 0 0 8 0 8 8 RAIMPALL. Amount (Inchee) 8 8 8 9 5 E 6 2 6 8 6 8 8 Duration (minutes) 7.50P 7.55P 8.03F 7.50P 7.55P 00°6 3:00% 3:30A 3:35A 3:35A 3:35A 3:35A 1:024 1:004 9:00P 9:00A 9:00P 9:55P 9:55P 1:051 1:024 8:05F Denn (hour) Social Terbiol Plum 2 Terbio 2 Tarbio 1 171 m 2 Farkiol. Flum 2 Farkio 2 erkio 2 Tarloo 1 Plum 2 1130 2 torito 1 r No 1 lun 2 rlio 2 GARM No. hribal rigol Clarinda, lora 5,25 1.97 1.97 3,25 3,12 3,25 3,25 3,12 3,25 3,25 A 764 (%.2708) 3,12 1.97 1.97 WATERSIED 13 Tot V lot V ⋈ 7 Number 12 = = = Aug. 768_ PROJECT 53 Cot. (29 U 3. 6007 1939

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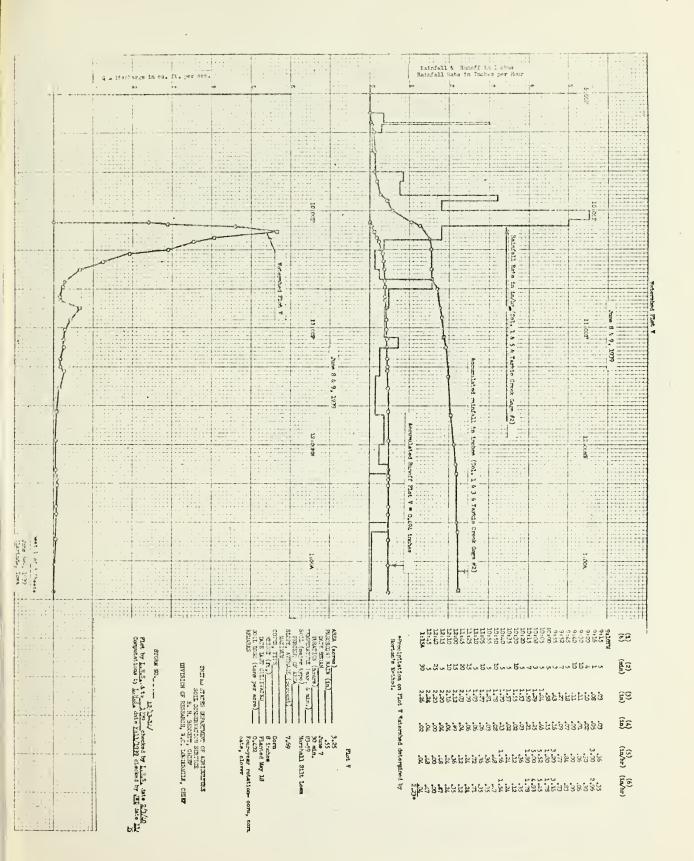


Form H. C. M.-345

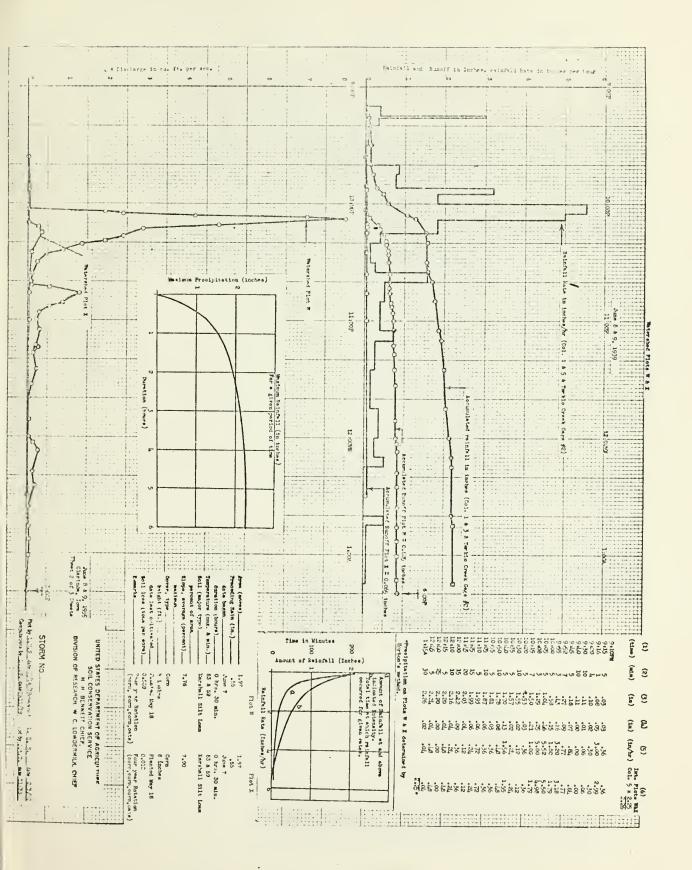
UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE DIVISION OF RESEARCH

Month Corraber , 19 39 SHEET 8 OF 8 SHEETS		CONDITION OF WAYEEBEED	(19)																				•										
Month		(tons per sore)	(8.8)	None	None	auo.	Lone		None																								
EDS		Rainvall Minus Run-ore (inches)	012	0.37	27	0.0	•37		.37																								
TERSH		١ .	(16)																														
US WA		MATINUM RATE Cu. R. 100. Tim	(15)																												-		
VARIO	Ком-огт	Amount (loches)	(14)	None	None	none	None		None																								
S ON		Roded (bour)	(13)	Ī																			İ						-			-	
UN-OF		Been D	(13)										And the control of th																		-	-	
ID THEIR RUN-C	Traffich (degree F)	Minimum	É		22	3	31		31				-																				
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RMS AI		90 minuter (inches per bu	(10)	.16	16	16	919	16	16	٥																-					-		
E STO		MAXIMUM INTERNATION (Inches per bour)	ís)	50	200	200	•20	202	20	00.																					The state of the s		
OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS	,	MAXING Interestors MAXING Interestors Somittee (Inches per Boun) (Inches per Boun) (Inches per Boun)	£	¥2.	2.4	224	-24	24	•24	47.4																					İ		
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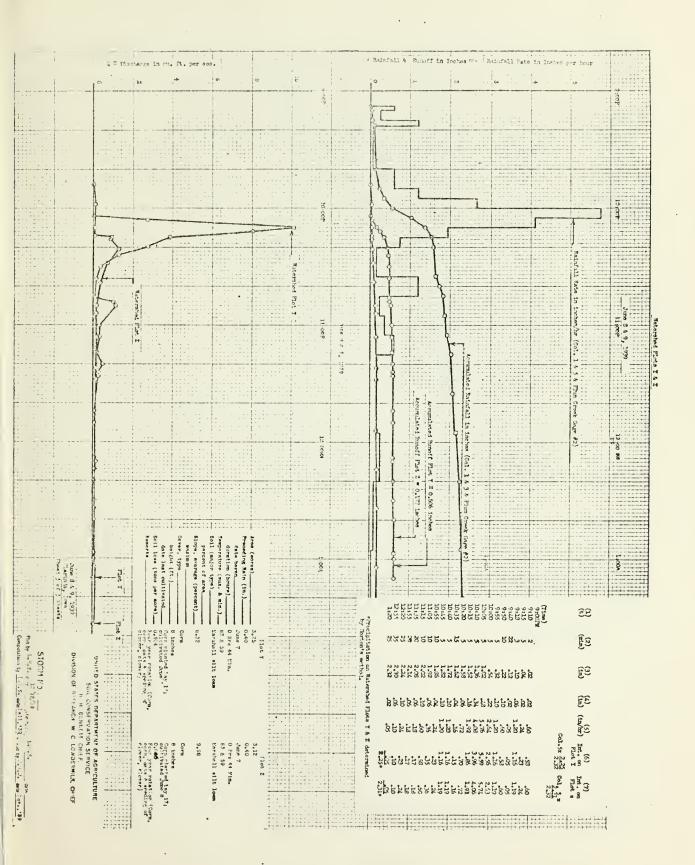




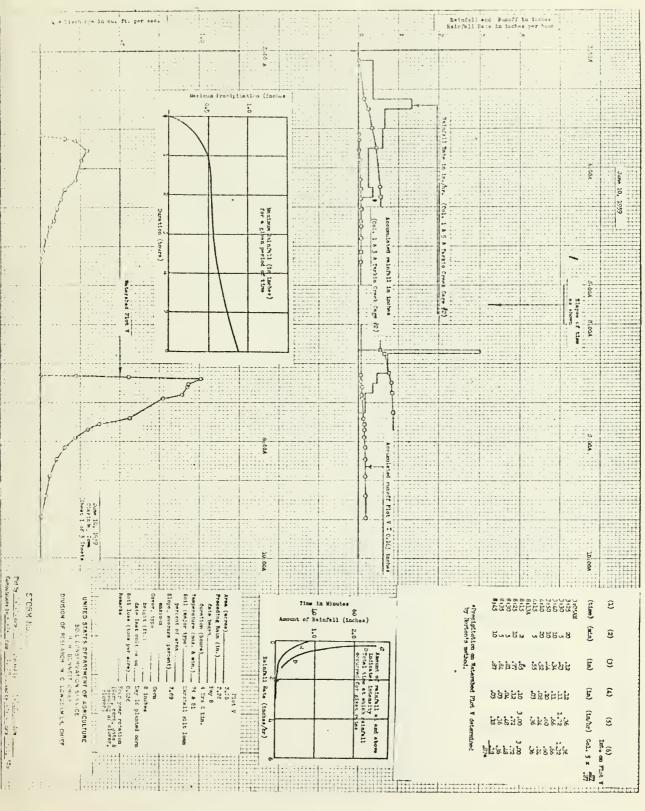




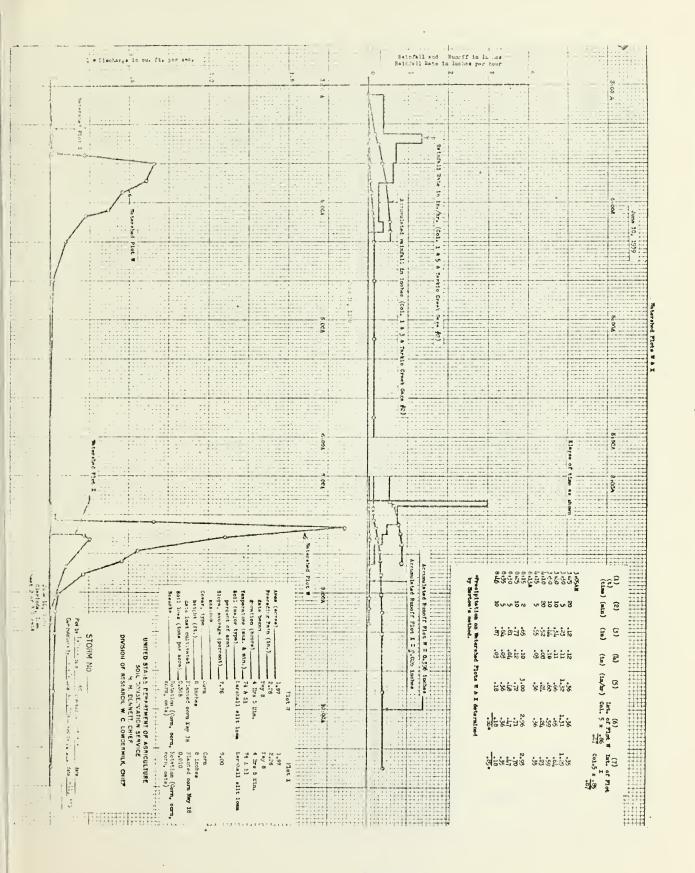
















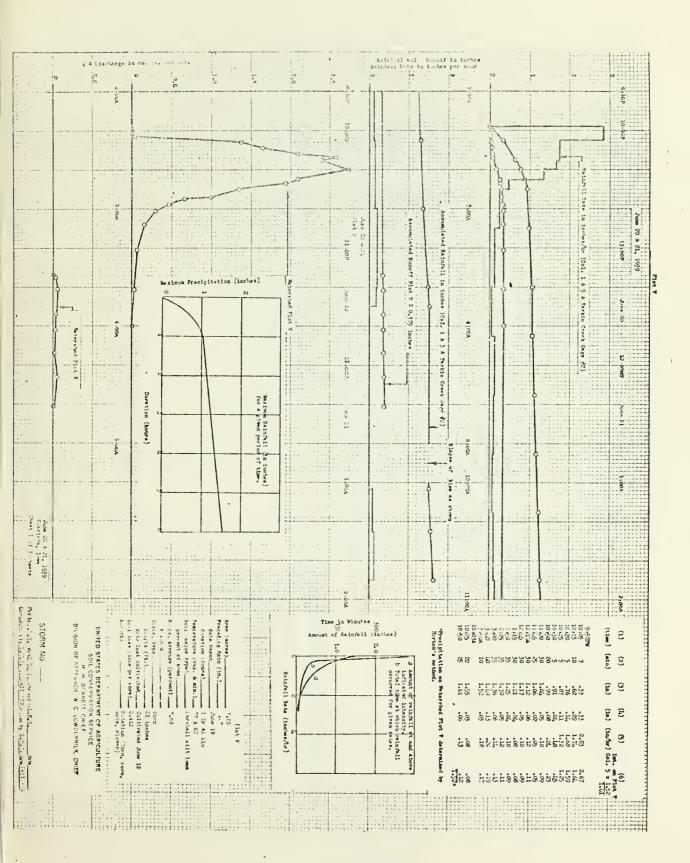


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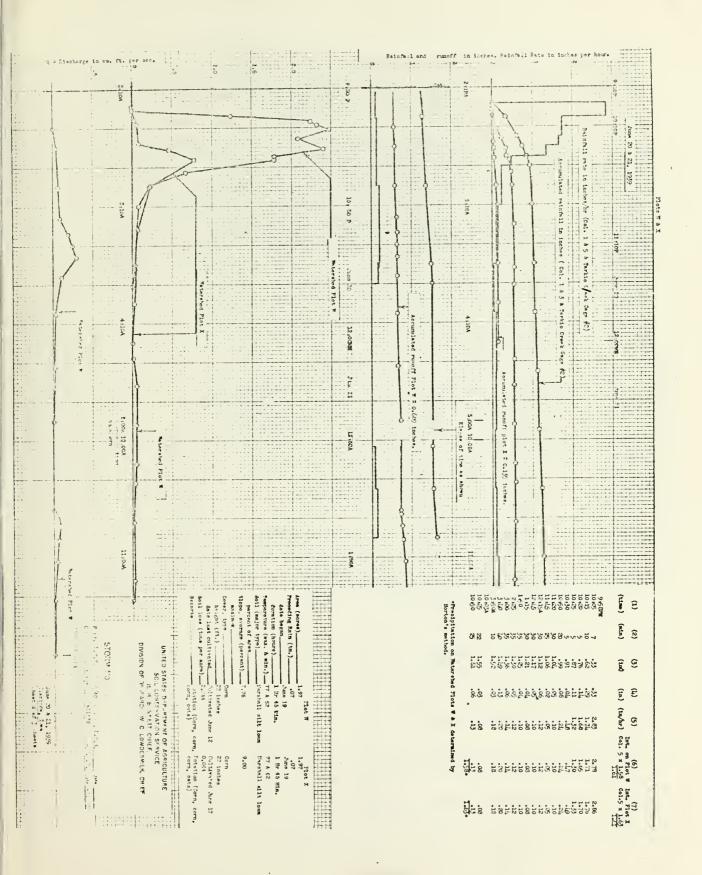


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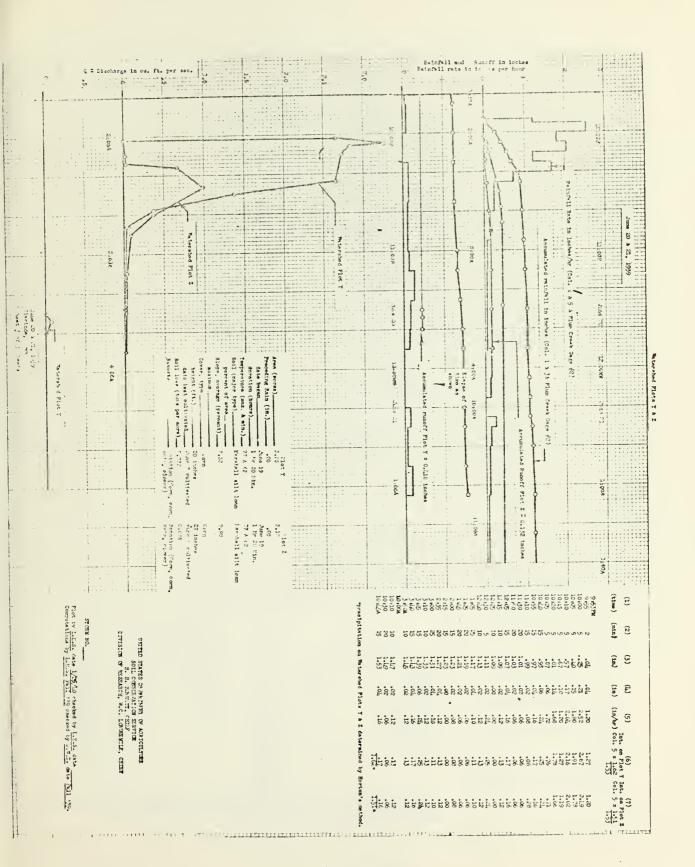




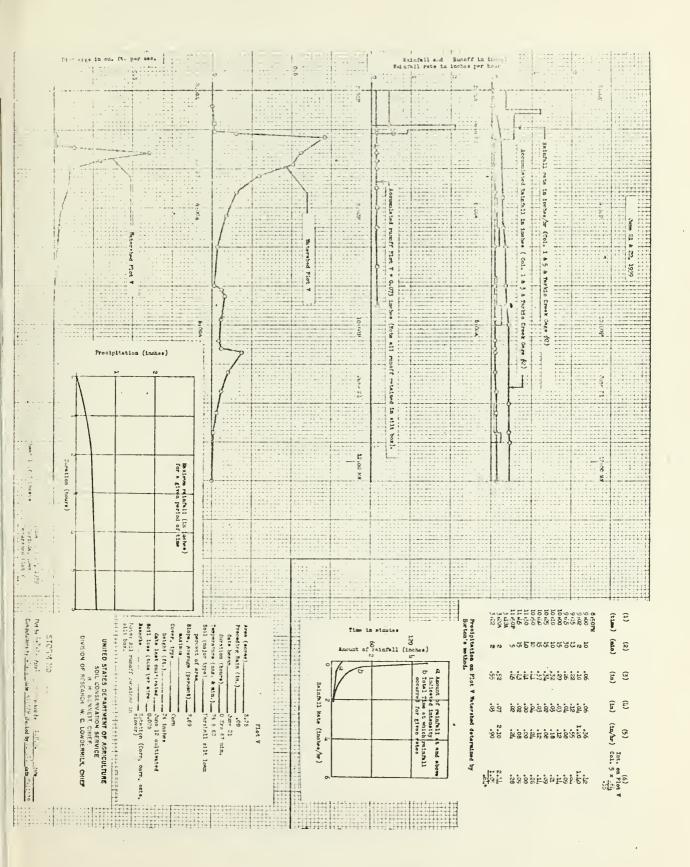








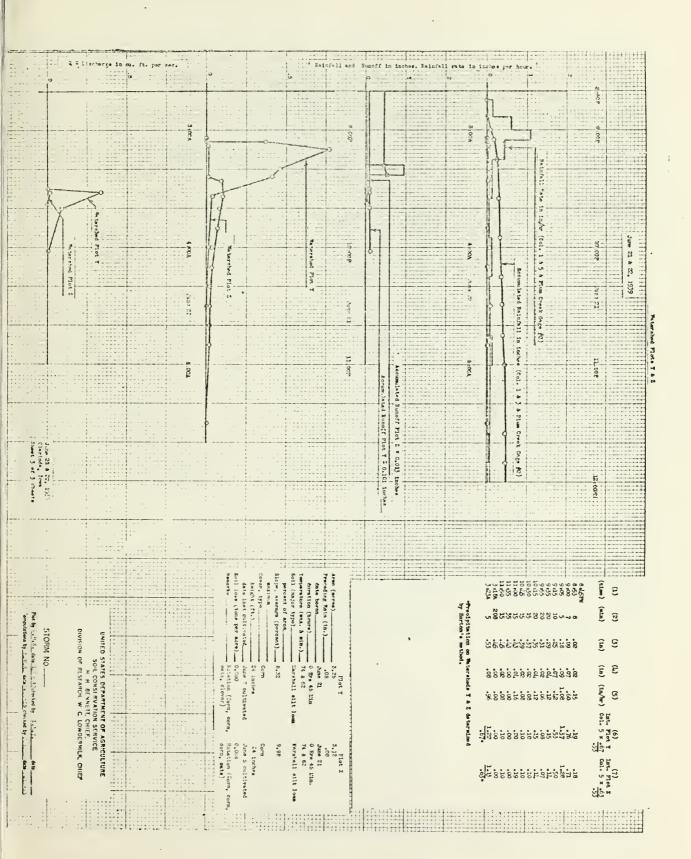




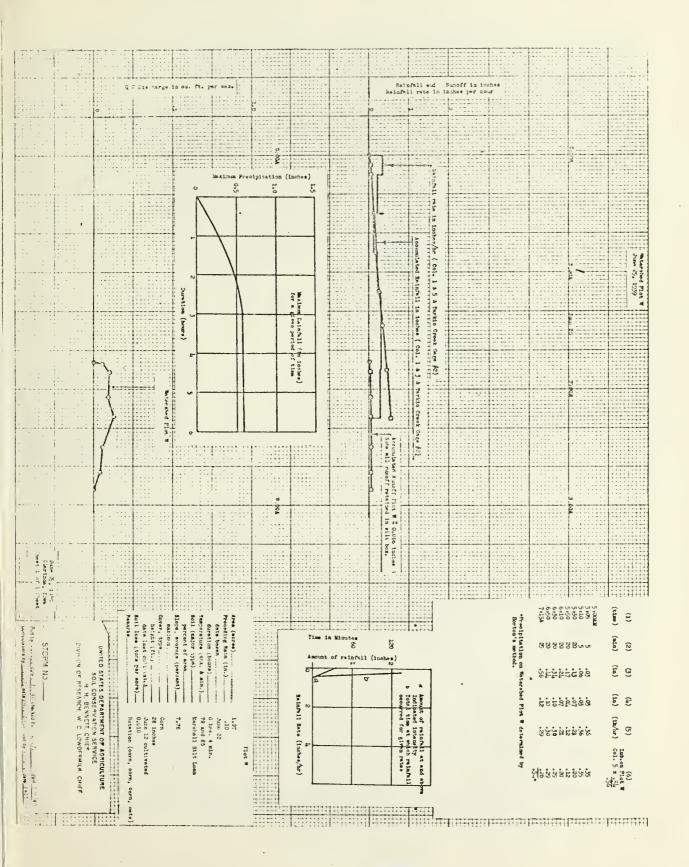


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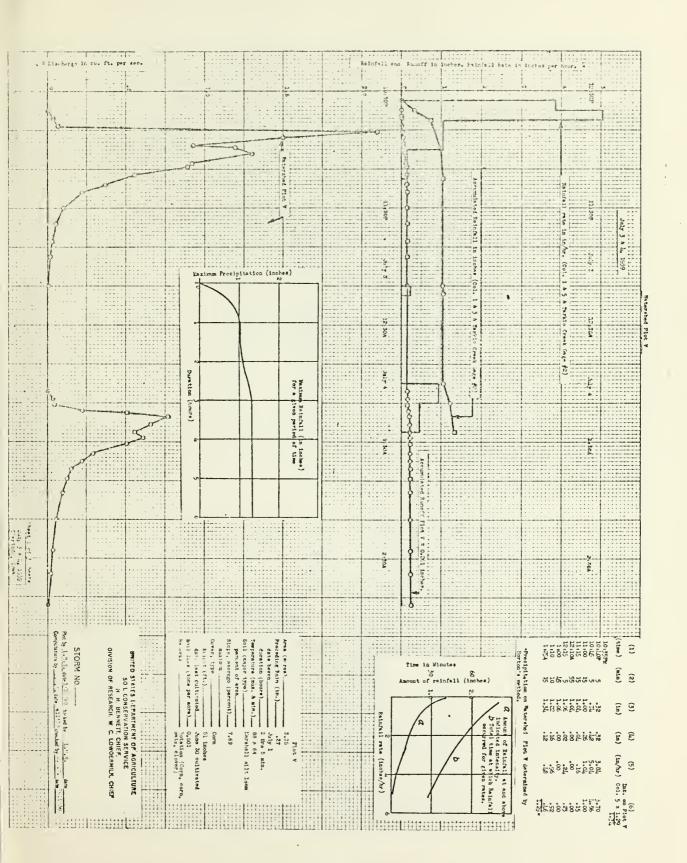




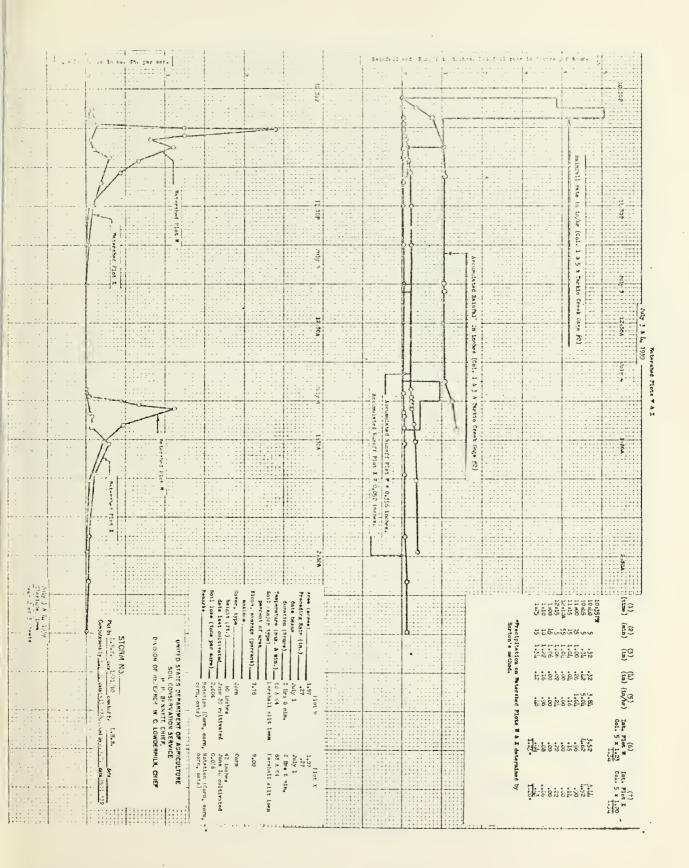




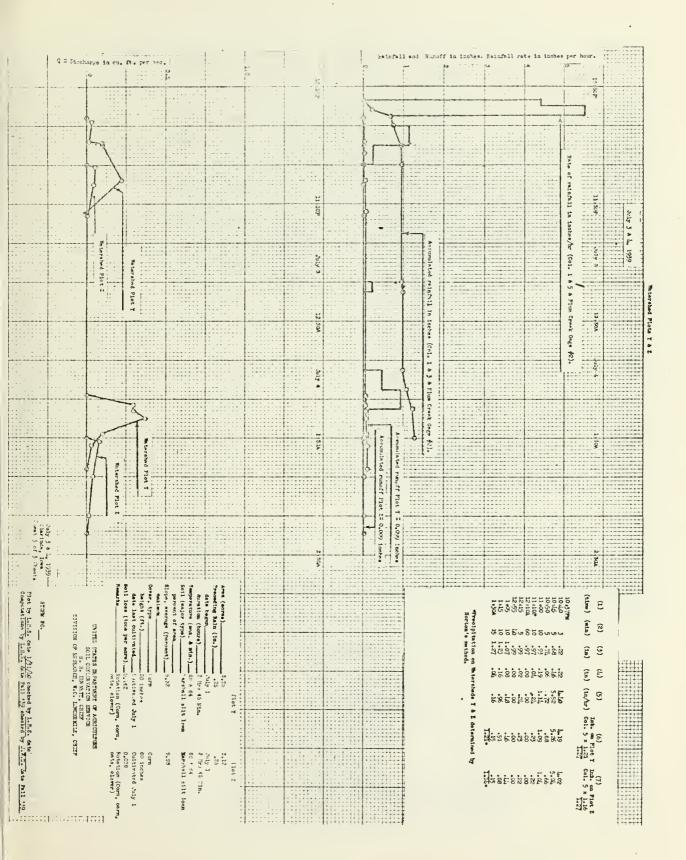














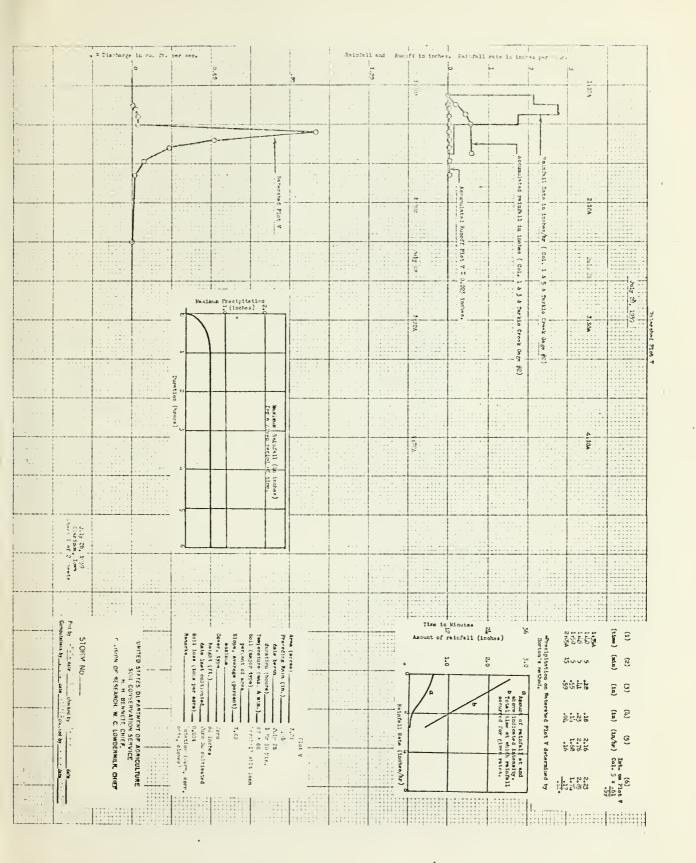


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